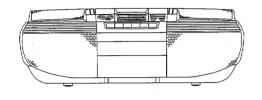
aıwa



MANNAM

CSD-ED88 CSD-ED89 CSD-ED99



COMPACT DISC STEREO
RADIO CASSETTE RECORDER

• BASIC TAPE MECHANISM: TN21ZVC-1816,TN51RV-240

• BASIC CD MECHANISM : KSM-213CDM

• TYPE: 88:<LH>, 99:<HR,EZ> 89:<HA,HR,LH,EZ>

REVISION PUBLISHING

• This Service Manual is the "Revision Publishing" and replaces "Simple Manual", CSD-ED88/89 (88: <LH>, 89: <HA,HR,LH,EZ>) S/M Code No. 09-993-409-2T2 and CSD-ED99 <HR,EZ> S/M Code No. 09-993-409-2T3.

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SPECIFICATIONS

Tuner section

Frequency range

FM:

AM<HA,HR,LH>:

MW<EZ>:

LW<EZ>:

87.5 MHz - 108 MHz Antenna : Rod antenna

530/531 kHz - 1,710/1,602 kHz

(10/9 kHz/step)

Antenna : Ferrite bar antenna 522/530 kHz - 1,611/1,710 kHz

(9/10 kHz/step)

Antenna: Ferrite bar antenna

153 kHz - 288 kHz

Antenna: Ferrite bar antenna

Deck section

Track format Frequency range

Recording system Erasing system Heads 4 tracks, 2 channels

Normal tape : 50 Hz-12,500 Hz

(EIAJ) AC bias Magnet erase

Recording/Playback head x 1/

erase head x 1

CD player section

Disc Compact disc

Scanning methodd Non-contact optical scanner

(semiconductor laser)

General

Output

Speaker 100 mm cone type (2),

36 mm cone type (2)

Headphones jack (stereo mini-

jack)

Power output 5.0 W + 5.0 W

(DIN MUSIC POWER)<EZ>
4.5 W + 4.5 W <HA,HR,LH>
(EIAJ 3.2 ohms, T.H.D. 10%)
3.3 W + 3.3 W <HA,HR,LH>
(DIN 1% Rated Power)

Power requirements D

DC 12 V using eight R14 (size

C) batteries,

AC 110 - 120 V / 220 - 240V, 50 / 60 Hz<HA,HR,LH> AC 230 V, 50 Hz<EZ>

Power consumption 27 W

Dimensions ($\mathbf{W} \times \mathbf{H} \times \mathbf{D}$)

Weight

507 (W) x 206 (H) x 299.5 (D) mm

CSD-ED88 / 89 : 4.7 kg CSD-ED99 : 4.9 kg (excluding batteries)

• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.

Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION

L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

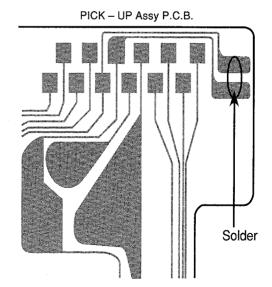
CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

Precaution to replace Optical block

(KSS-213C)

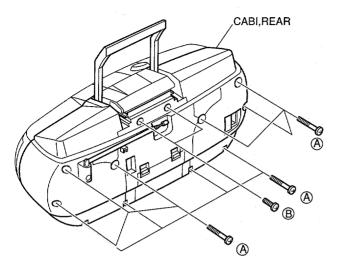
Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure to ground body and workbench, and ensure clothes do not touch the diode.

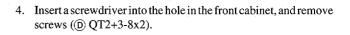
 After the connection, remove solder shown in right figure.

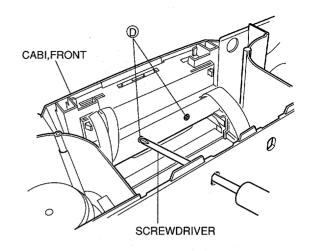


DISASSEMBLY INSTRUCTIONS

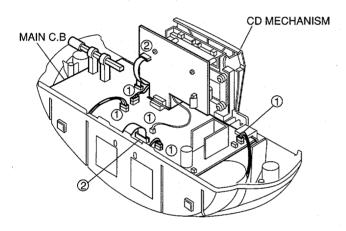
1. Remove screws (A UT2+3-30x10) and (B UT1+3-10x2). Holding the rear cabinet, and then remove the rear cabinet.



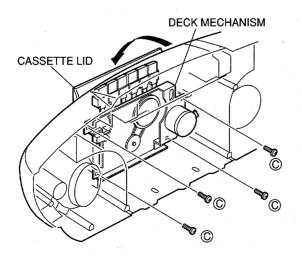




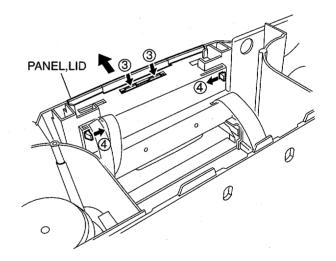
2. Disconnect cord ① x4 and FFC ② x3, MAIN C.B and CD block.



3. Remove screws (© UT2+3-8x4) that hold the deck mechanism to the cabinet. Open the cassette lid and remove the deck mechanism.



5. Use a flat-bladed screwdriver, etc. to release tab 3. Release tab 4 and push up the operation panel to remove it.



ELECTRICAL MAIN PARTS LIST

Table	REF. NO.	PART NO.	KANRI . NO.	DESCRIPTION		REF. NO.	PART NO.	Kanri No.	DESCRIPTION
19 87-421-184-010 C.TAZ104AP C.D. S.T-01-151-80 C.P. REST 100-169 S.T-21-161-160 C.D. C	TC					C18	87-015-819-080	CAP	PACITOR, 0.01
#7-212-185-00						C19	87-010-112-080	CAP	P, ELECT 100-16V
## 17.42-946-06									
ST-A21-114-40-0 C-10,MS205FF C24 ST-C12-137-080 CATP, ST. CATP, ST									
## 1-707-446-010						GO 4	07 010 157 000		ID CADACTECO 230D EO
### ST-070-416-010 CC, NEW YORK 15 C26 \$7-81-112-060 CC, AP, 0.010-507 ST		87-A21-111-040) C-1C, M	52495FP					
\$7.122-139-0.10 \$7.126.559-0.10 \$7.126.559-0.0 \$7		87-070-416-010	C,NJU	7201 L55		C26		CAF	P, 0.001-50V
ST.A21-099-010									
## RF-R21-245-010 IC_REM6538-V4 C11 \$7-016-220-000 C-CAR, \$0.10-25 R B R7-R21-245-010 IC_REM6538-V4 C11 \$7-016-220-000 C-CAR, \$0.08-50 B C-CAR, \$0.08-50 B R7-R21-145-040 C-1C_RAM50FERZ C13 \$7-016-220-000 CAR, \$0.08-50 B C-CAR, \$0.08-50 B R7-R21-145-040 C-1C_RAM50FERZ C13 \$7-016-120-000 CAR, \$0.08-15 B R7-R21-145-040 C-1C_RAM50FERZ C13 \$7-016-120-000 CAR, \$0.08-15 B R7-R21-145-040 C-1C_RAM50FERZ C15 \$7-016-120-000 CAR, \$0.08-15 B R7-R21-145-040 C-1C_RAM50FERZ C15 \$7-016-120-000						C20	87-010-009-000	,	.AF,5 0.1 25 K B
### RT-A11-425-040 ### RT-A11-425-040 ### RT-A11-425-040 ### C-IC, SM456F-E2 ### C-IC, SM456F-E2 **C13*** ST-010-401-080 **C24*** ST-010-401-080 **C24*** C-IC, SM456F-E2 **C24*** ST-010-401-080 **C25*** ST-010-191-080 ### RT-310-323-080 ### RT-323-080 ### RT-323-08				67132V-5K36					
### READ C-IC, BM4569F-B2		87-221-245-010	TC.RPM	5938-V4					
REAL STORE C15						C33	87-010-401-080	CAF	P, ELECT 1-50V
89-319-233-080						C34	87-010-401-080) CAP	P, ELECT 1-50V
88-319-233-080	TRANSISTO	R							
## 87-30-92-060 FET_ZSK439E/FCED> ## 87-026-447-080 CAP, EMECT 47-169V 89-320-011-080 TH, ZSC1708 REDED 17, ZSC1708 REDE		00 010 000 000		1000 (0 111)					
## 17-026-447-080 TR, 2520140 (15b) ## 17-026-144-080 TR, 252014 (15b) ## 17-026-145-010 TR, 252013 TR, 252013 TR, 252014 (15b) ## 17-026-445-010 TR, 252014 (15b) ## 17-026-445-010 TR, 252014 (15b) ## 17-026-452-010 TR, 252014 (15b) ## 18-026-452-010 TR, 252014 (15b) ## 18-026-452-010 TR, 252014 (15b) ## 18-026-452-010 TR, 252015 (15b) ## 18-026-452-010 TR, 252015 (15b) ## 17-026-452-010 TR, 252015									
87-036-214-080 TR, D7A114YS (0.3W) C40 87-010-197-080 CAP, EIRED 0.01 DM C41 87-012-1349-080 C-CAP, \$10007-50 CH 87-036-231-010 TR, D7C114YS C42 87-012-1349-080 C-CAP, \$10007-50 CH 87-036-231-010 TR, ZSB33S, \$RS C43 87-010-311-080 CAP, EIRED 0.01 DM C47 127-026-463-010 TR, ZSB1370 (1.5W) TR, ZSB1370 (1.7SW) TR		87-026-447-080	TR,2SC	1740S R <ez></ez>		C39	87-010-404-080) CAF	P, ELECT 4.7-50V
## 37-026-215-010 ## 77-026-215-010 ## 77-026-215-010 ## 77-026-215-010 ## 77-026-215-010 ## 77-026-215-010 ## 77-026-215-010 ## 77-026-216						C40	87-010-197-080) CAF	P. CHIP 0.01 DM
## 17-026-484-010 ## 7-026-391-010 ## 7-026-39		07-020-214-000	IN, DIA	11415 (0.5%)) C-C	CAP,S 1000P-50 CH
S7-026-291-010									
89-213-702-010									
S8-NP9-637-010		89-213-702-010	TR,2SB	1370 (1.8W)		C.4.5	05 010 210 000		77 D C 15 D 50 CH
SR-NPP-637-010 TR, 25A13187/U C47		87-026-462-010	TR,2SC	1740S					
89-113-194-080		88-NF9-637-010	TR,2SA	1318T/U		C47	87-010-197-080) CAE	P, CHIP 0.01 DM
19-112-965-080									
ST-026-239-010 C-TR, DTC114TK C52 S7-010-1316-080 C-CAP, S 337-50 CH-EZ> S7-010-150-010 TR, ZSC1815 (GR) C54 S7-010-197-080 CAP, CHTP 0.01 DN-EZ> S7-010-150-010 TR, ZSC1815 (GR) C54 S7-010-197-080 CAP, CHTP 0.01 DN-EZ> CAP, S 237-50 CH-EZ> C54 S7-010-197-080 CAP, CHTP 0.01 DN-EZ> C71 S7-015-819-080 CAP, CHTP 0.01 DN-EZ> C71 S7-015-819-080 CAP, CHTP 0.01 DN-EZ> C73 S7-016-669-080 CAP, CHTP 0.01 DN-EZ> C73 S7-016-669-080 CAP, CHTP 0.01 DN-EZ> C73 S7-016-669-080 C-CAP, S 217-50 CH-EZ> C73 S7-016-669-080 C-CAP, S 217-50 CH-EZ> C73 S7-016-669-080 CAP, CHTP 0.01 DN-EZ> C74 C7						Ç45	07 012 150 000		JAI, 0 2201 30 0 CH
87-026-239-010 C-TR_DTC114TK C52 87-010-197-080 CAP_, CHIP 0.01 DM-EZ> 89-110-150-010 TR_2SA1015 C53 87-010-197-080 CAP_, CHIP 0.01 DM-EZ> 87-026-496-080 FET_2SU103GK C54 87-A11-110-080 CAP_, CHIP 0.01 DM-EZ> C71 87-010-8197-080 CAP_, CHIP 0.01 DM-EZ> C73 87-016-669-080 CAP_, CA		87-026-464-010	TR, DTC	114TS					
R9-110-150-010		87-026-239-010	C-TR.D	TC114TK					
DIODE S7-026-496-080 FET, 2SJ103GR		89-110-150-010	TR,2SA	1015		C53			
DIODE C55 87-010-197-080 CAP, CHIP 0.01 DMCEZ> C71 87-015-819-080 CAP, CHIP 0.01 DMCEZ> C73 87-015-819-080 CAPACITOR, 0.1 - 25 K B C78 87-015-819-080 CAPACITOR, 0.1 - 25 K B C78 87-011-138-080 CAPACITOR, 0.1 - 25 K B C78 87-011-138-080 CHIP CAPACITOR, 0.1 - 25 K B C78 87-010-1374-080 CHIP CAPACITOR, 0.1 - 25 K B C78 87-010-374-080 CHIP CAPACITOR, 0.1 - 25 K B C78 87-040-616-070 VARI CAP DIODE SVC384 C207 87-010-374-080 CAP, ELECT 47-10V CAPACITOR, 0.1 - 25 K B C78 87-040-574-080 CAPACITOR, 0.1 - 25 K B C78 87-040-140-080 CAPACITOR,						C54	87-A11-110-080) CAI	P,820P-50 <ez></ez>
DIODE		07-020 450 000	7 111,25	31030K					
C78	DIODE								
87-A40-616-070 VARI CAP DIODE SVC384 87-A40-615-070 FM VARI-CAP DIODE SVC384 87-A40-615-070 FM VARI-CAP DIODE SVC381 87-A40-646-080 ZENER, MTZJ3.0A C209 87-010-190-080 S CHIP F 0.01 87-A40-646-080 ZENER, MTZJ2.7A C210 87-010-190-080 S CHIP F 0.01 87-A40-648-080 ZENER, MTZJ3.6A C212 87-010-401-080 CAP, ELECT 1-50V 87-A40-244-080 ZENER, MTZJ3.6A C212 87-010-401-080 CAP, ELECT 1-50V 87-A40-441-080 ZENER, MTZJ3.6A C215 87-010-425-080 C-CAP, 0.22-25 F 87-A40-441-080 ZENER, MTZJ3.5B C216 87-010-425-080 C-CAP, 0.22-25 F 87-A40-441-080 ZENER, MTZJ3.5B C216 87-010-425-080 C-CAP, 0.22-25 F 87-A40-445-080 DIODE, ISS133 (110MA) C217 87-010-400-080 CAP, ELECT 0.47-50V 87-A40-465-010 DIODE, FR202 C220 87-010-405-080 CAP, ELECT 0.47-50V 87-A40-465-010 DIODE, FR202 C220 87-010-405-080 CAP, ELECT 1.50V 87-010-314-080 C-CAP, S 22P-50V C228 87-010-190-080 S CHIP F 0.01 C1	DIODE								
87-A40-515-070					204	C207	87-010-374-080	CAI	P, ELECT 47-10V
R7-A40-574-080 ZENER, MTZJ3.0A C209 R7-010-190-080 S CHIP F 0.01						C208	87-010-402-080) CAI	P, ELECT 2.2-50V
ST-A40-648-080 ZENER, MTZJ8.2A C211 87-010-401-080 CAP, ELECT 1-50V		87-A40-574-080	D ZENER,						
87-A40-648-080 ZENER, MTZJ8.2A C212 87-010-401-080 CAP, ELECT 1-50V		87-A40-466-080	D ZENER,	MTZJ2.7A					
## 87-017-139-010 ZENER, HZS15-2 C215 ## 87-010-425-080 C-CAP, 0.22-25 F ## 87-020-465-080 DIODE, ISS133 (110MA) C216 ## 87-010-400-080 CAP, ELECT 0.47-50V ## 87-020-465-010 DIODE, ISS133 (110MA) C218 ## 87-010-400-080 CAP, ELECT 0.47-50V ## 87-040-465-010 DIODE, FR202 C220 ## 87-010-400-080 CAP, ELECT 0.47-50V ## C222 ## 87-010-405-080 CAP, ELECT 0.47-50V ## C223 ## 87-010-405-080 CAP, ELECT 10-50V ## MAIN C.B C223 ## 87-010-190-080 S CHIP F 0.01 ## C224 ## 87-010-190-080 S CHIP F 0.01 ## C225 ## C10-190-080 S CHIP F 0.01 ## C226 ## C10-190-080 S CHIP F 0.01 ## C227 ## C10-190-080 S CHIP F 0.01 ## C228 ## C10-190-080 S CHIP F 0.01 ## C229 ## C10-190-080 S CHIP F 0.01 ## C229 ## C10-190-080 CAP, ELECT 1-50V ## C23 ## C10-314-080 C-CAP, S 33P-50 J CH C229 ## C10-401-080 CAP, ELECT 1-50V ## C24 ## C3-010-314-080 C-CAP, S 0.1-25 KB ## C3 ## C10-401-080 CAP, ELECT 1-50V ## C3 ## C10-314-080 C-CAP, S 0.1-25 KB ## C5 ## C10-669-080 C-CAP, S 0.1-25 KB ## C23 ## C10-213-080 C-CAP, S 0.1-50 EP ## C23 ## C10-312-080 C-CAP, S 0.1-50 EP ## C23 ## C10-313-080 CAP, CHIP 18P ## C234 ## C10-546-080 CAP, ELECT 0.33-50V ## C6 ## C10-313-080 CAP, CHIP 18P ## C235 ## C10-544-080 CAP, ELECT 0.1-50V ## C34 ## C10-197-080 CAP, CHIP 0.01 DM C237 ## C10-260-080 CAP, ELECT 0.1-50V ## C11 ## F101-197-080 CAP, CHIP 0.01 DM C241 ## F101-260-080 CAP, ELECT 0.1-50V ## C12 ## F101-197-080 CAP, CHIP 0.01 DM C241 ## F101-260-080 CAP, ELECT 10-50V ## C13 ## F101-197-080 CAP, CHIP 0.01 DM C242 ## F101-260-080 CAP, ELECT 10-50V ## C13 ## F101-197-080 CAP, CHIP 0.01 DM C242 ## F101-260-080 CAP, ELECT 10-50V ## C13 ## F101-197-080 CAP, CHIP 0.01 DM C242 ## F101-260-080 CAP, ELECT 10-50V ## C14 ## F101-197-080 CAP, CHIP 0.01 DM C242 ## F101-405-080 CAP, ELECT 10-50V ## C15 ## F101-197-080 CAP, CHIP 0.01 DM C242 ## F101-405-080 CAP, ELECT 10-50V ## C15 ## F101-197-080 CAP, CHIP 0.01 DM C244 ## F101-405-080 CAP, ELECT 10-50V ## C15 ## C101-197-080 CAP, CHIP 0.01 DM C244 ## F101-405-080 CAP, ELECT 10-50									P, ELECT 1-50V
87-A40-441-080 ZENER MTZJ7.5B C216 87-010-425-080 C-CAP,0.22-25 F 87-020-465-080 DIODE,1SS133 (110MA) C217 87-010-400-080 CAP, ELECT 0.47-50V 87-A40-465-010 DIODE,FR202 C220 87-010-400-080 CAP, ELECT 0.47-50V 87-A40-465-010 DIODE,FR202 C220 87-010-405-080 CAP, ELECT 10-50V MAIN C.B C222 87-010-190-080 S CHIP F 0.01 C1 87-010-314-080 C-CAP,S 22P-50V C228 87-010-190-080 S CHIP F 0.01 C2 87-010-316-080 C-CAP,S 33P-50 J CH C229 87-010-401-080 CAP, ELECT 1-50V C3 87-010-314-080 C-CAP,S 22P-50V C5 87-016-669-080 C-CAP,S 22P-50V C5 87-016-669-080 C-CAP,S 0.1-25 KB <except ez=""> C231 87-010-213-080 C-CAP, S 0.015-50 B C5 87-012-368-080 C-CAP,S 0.1-25 KB<except ez=""> C232 87-010-213-080 C-CAP,S 0.015-50 B C6 87-010-312-080 C-CAP,S 15P-50 CH<ez> C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P<except ez=""> C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-012-349-080 C-CAP,S 30P-50 CH C3 87-012-349-080 C-CAP,S 1000P-50 CH C1 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-263-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-263-080 CAP, ELECT 10-50V C12 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C13 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C13 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-197-080 C-CAP,S 66-50 CH C14 87-012-1349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH</except></ez></except></except>			. ,			C215	87-010-425-086) C-(TAP 0 22-25 F
C218								C-0	CAP,0.22-25 F
MAIN C.B C220 87-010-405-080 CAP, ELECT 10-50V		87-020-465-080	O DIODE,	1SS133 (110M	A)				· ·
MAIN C.B C222 87-010-190-080 S CHIP F 0.01 C223 87-010-190-080 S CHIP F 0.01 C226 87-010-190-080 S CHIP F 0.01 C226 87-010-190-080 S CHIP F 0.01 C227 87-010-314-080 C-CAP,S 22P-50V C228 87-010-401-080 CAP, ELECT 1-50V C2 87-010-316-080 C-CAP,S 33P-50 J CH C229 87-010-401-080 CAP, ELECT 1-50V C3 87-010-314-080 C-CAP,S 22P-50V C5 87-016-669-080 C-CAP,S 0.1-25 KB <except ez=""> C231 87-010-213-080 C-CAP,S 0.015-50 B C5 87-012-368-080 C-CAP,S 0.1-50 ZF<ez> C232 87-010-213-080 C-CAP,S 0.015-50 B C6 87-010-312-080 C-CAP,S 15P-50 CH<ez> C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P<except ez=""> C235 87-010-544-080 CAP, ELECT 0.33-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C236 87-010-544-080 CAP, ELECT 0.1-50V C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-263-080 CAP, ELECT 10-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C12 87-010-150-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 6P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V</except></ez></ez></except>		87-A40-465-010	O DIODE,	FR202					
MAIN C.B C223 87-010-190-080 S CHIP F 0.01 C226 87-010-190-080 S CHIP F 0.01 C226 87-010-190-080 S CHIP F 0.01 C226 87-010-190-080 S CHIP F 0.01 C227 87-010-314-080 C-CAP,S 22P-50V C2 87-010-316-080 C-CAP,S 33P-50 J CH C2 87-010-314-080 C-CAP,S 33P-50 J CH C2 87-010-314-080 C-CAP,S 22P-50V C3 87-010-314-080 C-CAP,S 22P-50V C5 87-016-669-080 C-CAP,S 0.1-25 KB <except ez=""> C231 87-010-213-080 C-CAP,S 0.015-50 B C5 87-012-368-080 C-CAP,S 0.1-50 ZF<ez> C232 87-010-213-080 C-CAP,S 0.015-50 B C6 87-010-312-080 C-CAP,S 0.1-50 ZF<ez> C233 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P<except ez=""> C234 87-010-546-080 CAP, ELECT 0.33-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-260-080 CAP, ELECT 100-10V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-012-349-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 6P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V CAP, ELECT 10-50V</except></ez></ez></except>			ŕ			d222	. 97010 100 000	n a'	משדם ה ח מו
C226 87-010-190-080 S CHIP F 0.01 C1 87-010-314-080 C-CAP,S 22P-50V C228 87-010-401-080 CAP, ELECT 1-50V C2 87-010-316-080 C-CAP,S 33P-50 J CH C229 87-010-401-080 CAP, ELECT 1-50V C3 87-010-314-080 C-CAP,S 22P-50V C5 87-016-669-080 C-CAP,S 0.1-25 KB< C5 87-012-368-080 C-CAP,S 0.1-25 KB< C5 87-012-368-080 C-CAP,S 0.1-50 ZF< C232 87-010-213-080 C-CAP,S 0.015-50 B C5 87-010-313-080 C-CAP,S 0.1-50 ZF< C233 87-010-213-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P< C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P< C235 87-010-546-080 CAP, ELECT 0.1-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C238 87-010-263-080 CAP, ELECT 100-10V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 1000P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V	MAIN C.B								
C2 87-010-316-080 C-CAP,S 33P-50 J CH C229 87-010-401-080 CAP, ELECT 1-50V C3 87-010-314-080 C-CAP,S 22P-50V C5 87-016-669-080 C-CAP,S 0.1-25 KB <except ez=""> C231 87-010-213-080 C-CAP,S 0.015-50 B C5 87-012-368-080 C-CAP,S 0.1-50 ZF<ez> C232 87-010-213-080 C-CAP,S 0.015-50 B C233 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-312-080 C-CAP,S 15P-50 CH<ez> C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P<except ez=""> C234 87-010-546-080 CAP, ELECT 0.33-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 100-10V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 1000P-50 CH C14 87-012-157-080 C-CAP,S 1000P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V CAP, ELECT 10-50V</except></ez></ez></except>						C226	87-010-190-080) s	CHIP F 0.01
C3 87-010-314-080 C-CAP,S 22P-50V C5 87-016-669-080 C-CAP,S 0.1-25 KB <except ez=""> C231 87-010-213-080 C-CAP,S 0.015-50 B C5 87-012-368-080 C-CAP,S 0.1-50 ZF<ez> C232 87-010-213-080 C-CAP,S 0.015-50 B C233 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-312-080 C-CAP,S 15P-50 CH<ez> C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P<except ez=""> C234 87-010-546-080 CAP, ELECT 0.33-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 390P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-263-080 CAP, ELECT 100-10V C12 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 1000P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C243 87-010-405-080 CAP, ELECT 10-50V C34 87-010-405-080 CAP, ELECT 10-50V C35 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C37 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C37 87-012-349-080 C-CAP,S 1000P-50 CH C38 87-010-405-080 CAP, ELECT 10-50V C39 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C39 87-012-349-080 C-CAP,S 1000P-50 CH C34 87-010-405-080 CAP, ELECT 10-50V C35 87-012-349-080 C-CAP,S 1000P-50 CH</except></ez></ez></except>					н				
C5 87-012-368-080 C-CAP,S 0.1-50 ZF <ez> C232 87-010-213-080 C-CAP,S 0.015-50 B C233 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-312-080 C-CAP,S 15P-50 CH<ez> C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P<except ez=""> C235 87-010-544-080 CAP, ELECT 0.1-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-263-080 CAP, ELECT 100-10V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 6P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V</except></ez></ez>	C3	87-010-314-08	O C-CAP,	S 22P-50V					
C233 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P <except ez=""> C234 87-010-546-080 CAP, ELECT 0.33-50V C6 87-010-313-080 CAP, CHIP 18P<except ez=""> C235 87-010-544-080 CAP, ELECT 0.1-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 100-10V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 6P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V</except></except>									
C6 87-010-313-080 CAP, CHIP 18P <except ez=""> C235 87-010-544-080 CAP, ELECT 0.1-50V C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 47-25V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 100-10V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 30P-50CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V</except>	Co	01-017-308-08	U C-CAP,	ი.1-ე∪ 7 <u>1</u> <	20/				
C7 87-012-158-080 C-CAP,S 390P-50 CH C8 87-012-349-080 C-CAP,S 1000P-50 CH C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 0.1-50V C11 87-010-197-080 CAP, CHIP 0.01 DM C238 87-010-263-080 CAP, ELECT 100-10V C12 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP,S 6P-50 CH C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V C250 R7-010-405-080 CAP, ELECT 10-50V C241 87-010-405-080 CAP, ELECT 10-50V C242 87-010-405-080 CAP, ELECT 10-50V C243 87-010-405-080 CAP, ELECT 10-50V C244 87-010-405-080 CAP, ELECT 10-50V									
C8 87-012-349-080 C-CAP, S 1000P-50 CH C236 87-010-544-080 CAP, ELECT 0.1-50V C10 87-010-197-080 CAP, CHIP 0.01 DM C237 87-010-260-080 CAP, ELECT 100-10V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP, S 6P-50 CH C14 87-012-157-080 C-CAP, S 6P-50 CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP, S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V CAP,						C633	0/-010-044-00	, CHI	:, DDDC: 0.1-30V
C238 87-010-263-080 CAP, ELECT 100-10V C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP, S 6P-50 CH C14 87-012-157-080 C-CAP 330P-50CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP, S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V	C8	87-012-349-08	0 C-CAP,	S 1000P-50 C					
C11 87-010-197-080 CAP, CHIP 0.01 DM C241 87-010-405-080 CAP, ELECT 10-50V C12 87-010-197-080 CAP, CHIP 0.01 DM C242 87-010-405-080 CAP, ELECT 10-50V C13 87-010-150-080 C-CAP, S 6P-50 CH C14 87-012-157-080 C-CAP 330P-50CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP, S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V CAP, ELECT 10-50	C10	87-010-197-08	u CAP, C	mir 0.01 DM					
C13 87-010-150-080 C-CAP,S 6P-50 CH C14 87-012-157-080 C-CAP 330P-50CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP,S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V						C241	87-010-405-08	0 CAI	P, ELECT 10-50V
C14 87-012-157-080 C-CAP 330P-50CH C243 87-010-405-080 CAP, ELECT 10-50V C15 87-012-349-080 C-CAP, S 1000P-50 CH C244 87-010-405-080 CAP, ELECT 10-50V			-			C242	8/-010-405-08) CAI	P, EDECT 10-50V
010 01 011 019 000 1 / / /-			0 C-CAP	330P-50CH					
1:7/15 · 8/=0:10=7(05=080 - 0.00 - 80.00") 10=800/	C15	87-012-349-08	0 C-CAP,	S 1000P-50 C	H		87-010-405-08 87-010-405-08		P, ELECT 10-50V P, ELECT 10-50V
C16 87-010-380-080 CAP, ELECT 47-16V C246 87-010-405-080 CAP, ELECT 10-50V	C16	87-010-380-08				C246	87-010-405-08	0 CAI	P, ELECT 10-50V
C17 87-010-198-080 CAP, CHIP 0.022-50V C247 87-010-404-080 CAP, ELECT 4.7-50V	C17	87-010-198-08	0 CAP, C	HIP 0.022-50	V	C247	87-010-404-08	U CAI	P, ELECT 4.7-50V

REF. NO.	PART.NO.	KANRI NO.	DESCRIPTION	**	REF. NO.	PART NO.	KANRI DESCRIPTION NO.
C248 C251 C261 C262 C263	87-010-404-080 87-010-401-080 87-010-402-080 87-010-402-080 87-010-178-080	CAP, CAP, CAP,	ELECT 4.7-50V ELECT 1-50V ELECT 2.2-50V ELECT 2.2-50V CAP 1000P-50 KB		C843 C844 C846 C849	87-018-134-080 87-018-124-080 87-010-194-080 87-010-177-080 87-010-178-080	CAP, CHIP 0.047 CHIP CAPACITOR 820P <except 99=""></except>
C264 C265 C266 C267 C268	87-010-178-080 87-010-383-080 87-010-383-080 87-010-380-080 87-010-380-080	CAP, CAP, CAP,	CAP 1000P-50 KB ELECT 33-25V ELECT 33-25V ELECT 47-16V ELECT 47-16V		C850 C850 C851 C852 C853	87-010-177-080 87-010-178-080 87-010-186-080 87-018-131-080 87-010-190-080	CHIP CAP,1000P-50 KB<99> C-CAP,S 4700P-50 KB CAP, 0.001-50V
C271 C272 C277 C278 C279	87-010-236-080 87-010-236-080 87-010-260-080 87-010-263-080 87-010-112-080	CAP, CAP, CAP,	ELECT 1000-10V ELECT 1000-10V ELECT 47-25V ELECT 100-10V ELECT 100-16V		C910 C927 C928 C929 C930	87-010-197-080 87-010-316-080 87-010-316-080 87-A11-076-080 87-010-316-080	C-CAP,S 33P-50 J CH C-CAP,S 33P-50 J CH
C280 C281 C299 C301 C306	87-010-956-080 87-010-956-080 87-010-197-080 87-010-453-010 87-010-404-080	C-CA CAP, CAP,	P,S 0.068-50 P,S 0.068-50 CHIP 0.01 DM ELECT 4700-25V ELECT 4.7-50V	- '	C942 CF2 CF3 CF4 CN1	87-010-197-080 82-785-747-080 82-785-747-080 87-A91-094-010 87-099-194-010	CAP, CHIP 0.01 DM <ez> CF,MS2 GHY,R CF,MS2 GHY,R FLTR,CDA10.7 MG80A CONN,6P 6216V</ez>
C307 C308 C309 C310 C311	87-010-401-080 87-010-221-080 87-010-263-080 87-010-248-080 87-010-384-080	CAP, CAP, CAP,	ELECT 1-50V ELECT 470-10V ELECT 100-10V ELECT 220-10V ELECT 100-25V		CN201 CN204 CN205 CN801 CN802	87-A60-054-010 87-049-469-010 87-A90-178-010 87-049-469-010 87-049-469-010	CONN,14P 6216V CONN,4P V CONN,2P V S2M-2W CONN,4P V CONN,4P V <except 99=""></except>
C312 C314 C315 C321 C322	87-010-385-080 87-010-248-080 87-010-197-080 87-010-197-080 87-010-263-080	CAP, CAP, CAP,	ELECT 220-25V ELECT 220-10V CHIP 0.01 DM CHIP 0.01 DM ELECT 100-10V		CN803 CON802 CON803 L2 L3	S1-2S3-002-500 8Z-CH4-612-010 8Z-CH4-616-010 87-A50-347-010 87-A91-095-010	CONN, 3P CONN ASSY, 6P<99> CONN ASSY, 3P COIL, FM BPF EX BAR-ANT, MW FOR 2B(SYN) <except ez=""></except>
C325 C341 C342 C343 C801	87-010-405-080 87-010-197-080 87-010-221-080 87-010-401-080 87-010-402-080	CAP, CAP, CAP,	ELECT 10-50V CHIP 0.01 DM ELECT 470-10V ELECT 1-50V ELECT 2.2-50V		L3 L4 L5 L6 L7	87-A91-096-010 87-A50-420-010 87-A50-424-010 87-A50-427-010 87-A91-308-010	BAR-ANT,MW/LW FOR 3B(SYN) <ez> COIL,MW OSC(SYN) COIL,FM RF EX(SYN) COIL,FM OSC EX(SYN) FLTR,PCFAZH- 450T (TOK)</ez>
C802 C803 C803 C804 C804	87-010-402-080 87-010-181-080 87-010-182-080 87-010-181-080 87-010-182-080	C-CA C-CA C-CA	ELECT 2.2-50V P.S 1800P-50 KB <except P.S 2200P-50 KB<99> P.S 1800P-50 KB<except P.S 2200P-50 KB<99></except </except 		L8 L9 L51 L801 R840	87-005-849-080 87-005-849-080 87-A50-421-010 87-007-342-010 87-029-124-010	COIL,10UH(CECS) COIL,10UH(CECS) COIL,LW OSC(SYN) <ez> COIL,OSC 85K BIAS RES,FUSE 2.2-1/4</ez>
C805 C806 C809 C810 C811	87-012-158-080 87-012-158-080 87-010-379-010 87-010-379-010 87-010-404-080	C-CA	P,S 390P-50 CH P,S 390P-50 CH E 22-10 SM E 22-10 SM ELECT 4.7-50V		S2 S3 TC1 TC51 X1	87-036-389-010 87-A91-151-010 87-011-220-080 87-011-233-080 87-A70-061-010	TRIMER, 50P VCT54 <ez></ez>
C812 C815	87-010-404-080 87-010-374-010	,	ELECT 4.7-50V ELECT 47-10V		FRONT C.B		
C816 C819 C820	87-010-384-080 87-010-401-010 87-010-401-010	CAP,	ELECT 100-25V ELECT 1-50V ELECT 1-50V		C601 C602 C603	87-010-313-080 87-010-315-080 87-010-319-080	C-CAP,S 27P-50 CH
C821 C821 C822 C822	87-010-183-080 87-012-153-080 87-010-183-080 87-012-153-080	C-CA C-CA	P,S 2700P-50 KB <except P,S 120P-50 CH<99> P,S 2700P-50 KB<except P,S 120P-50 CH<99></except </except 		C604 C605 C606	87-010-312-080 87-010-317-080 87-A11-067-080	C-CAP,S 15P-50 J CH C-CAP,S 39P-50 CH C-CAP,S 1-10
C823 C824 C825	87-010-213-080 87-010-213-080 87-010-405-080	C-CA CAP,	P,S 0.015-50 B P,S 0.015-50 B ELECT 10-50V		C607 C608 C609 C610	87-010-197-080 87-012-368-080 87-A11-067-080 87-010-112-080	CAP, CHIP 0.01 DM C-CAP,S 0.1-50 ZF C-CAP,S 1-10 CAP, ELECT 100-16V
C826 C827 C828	87-010-405-080 87-010-404-080 87-010-404-080	CAP,	ELECT 10-50V ELECT 4.7-50V ELECT 4.7-50V		C611 C612	87-A11-148-080 87-010-248-080	CHIP CAPACITOR, 0.1-50 CAP, ELECT 220-6.3V
C830 C831 C832	87-010-260-080 87-010-198-080 87-010-198-080	CAP,	ELECT 47-25V CHIP 0.022 CHIP 0.022		C613 C614 C615	87-010-402-080 87-012-368-080 87-010-400-080	CAP, ELECT 2.2-50V C-CAP,S 0.1-50 ZF CAP, ELECT 0.47-50V
C833 C834	87-010-179-080 87-010-248-080 87-012-358-010	CAP,	CHIP S B1200P ELECT 220-10V		C616 C617 C618	87-010-401-080 87-010-178-080 87-010-391-080	CAP, ELECT 1-50V CHIP CAP 1000P CAP, ELECT 10-25V
C835 C837 C838	87-010-374-010 87-010-405-080	CAP,	ELECT 10-50V		C620 C625	87-010-190-080 87-010-805-080	C-CAP, S 0.01-50 C-CAP, S 1-16
C841 C842	87-010-182-080 87-010-182-080		P,S 2200P-50 KB P,S 2200P-50 KB		C626 C691	87-010-404-080 87-010-405-080	CAP, ELECT 4.7-50V CAP, ELECT 10-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION		REF. NO.	PART NO.	Kanri No.	DESCRIPTION
CN601 CN602 CN603 CN604 CN605	87-099-031-010 87-099-200-010 87-099-199-010 87-099-200-010 87-099-200-010	CONN, 7P CONN, 6P CONN, 7P	2 6216 H 6216H 6216 H 6216H 6216H		C475 C476 C477 C478 C479	87-010-197-080 87-010-236-080 87-010-197-080 87-010-263-080 87-010-197-080	CAP CAP CAP	, CHIP 0.01 DM ,E 1000-10 SME , CHIP 0.01 DM , ELECT 100-10V , CHIP 0.01 DM
FC601 FC602 FC603 FC604 FC605	82-CH4-619-010 82-CH4-621-010 82-CH4-622-010 82-CH4-620-010 82-CH4-621-010	FF-CABLE FF-CABLE FF-CABLE	,,14P AF-FR ,,7P CD-FR ,,6P TU-FR ,,7P FR-LED ,,7P FR-LED		C480 C481 C482 C483 C484	87-010-221-080 87-010-405-080 87-010-405-080 87-012-156-080 87-012-156-080	CAP, CAP, C-CA	, ELECT 470-10V , ELECT 10-50V , ELECT 10-50V AP,S 220P-50 CH AP,S 220P-50 CH
L601 LCD601 S601 S604 S605	87-003-171-010 8Z-CH4-635-010 87-A90-164-080 87-A90-164-080 87-A90-164-080	LCD, HLC7 SW, TACT SW, TACT	H TROIDAL 365 ZCH-4 SKQNAB(N) SKQNAB(N) SKQNAB(N)		C489 C490 C491 C492 C493	87-012-368-080 87-012-368-080 87-010-197-080 87-010-221-080 87-010-190-080	C-CAP, CAP,	AP,S 0.1-50 ZF AP,S 0.1-50 ZF , CHIP 0.01 DM , ELECT 470-10V AP,S 0.01-50
S614 S615	87-A90-164-080 87-A90-164-080 87-A90-164-080 87-A90-164-080 87-030-415-010	SW, TACT SW, TACT	SKQNAB (N) SKQNAB (N) SKQNAB (N) SKQNAB (N) 768KHZ		C501 C502 C503 C504 C505	87-012-368-080 87-010-322-080 87-010-322-080 87-010-322-080 87-010-322-080	C-CA C-CA C-CA	AP,S 0.1-50 ZF AP,S 100P-50 J CH AP,S 100P-50 J CH AP,S 100P-50 J CH AP,S 100P-50 J CH
	87-A70-070-080	VIB,CER	5.76MHZ CRHF		C506 C510 CN401	87-010-322-080 87-012-368-080 87-A60-424-010	C-CA CONN	AP,S 100P-50 J CH AP,S 0.1-50 ZF N,16P V TOC-B
CD MAIN C.		03.D ELE	om 2 2 5011		CN402 CN403	8Z-CH4-614-010 87-099-195-010		N ASSY,6P CD-ME N,7P 6216 V
C402 C403 C404	87-010-403-080 87-010-197-080 87-010-263-080 87-010-248-080 87-010-197-080	CAP, CHI CAP, ELE CAP, ELE	CT 3.3-50V P 0.01 DM CT 100-10V CT 220-10V P 0.01 DM		L404 SFR430	8Z-CH4-618-010 87-003-102-080 87-003-152-080 87-024-176-080 87-A70-046-010	COII COII SFR,	CABLE,16P CD-RF L, 10UH L,100UH CECS 100K H NVZ6TLTA XTAL 16.934MHZ
C407 C409	87-010-374-080 87-010-178-080 87-010-248-080 87-010-263-080	C-CAP,S CAP, ELE	CT 47-10V 1000P-50 KB CT 220-10V CT 100-10V		LED C.B		V 1D,	ATAL 10.354FIIIE
C412 C413 C414 C416	87-010-403-080 87-A11-138-080 87-010-405-080 87-010-545-080	CAP, ELE CAP,0.03 CAP, ELE CAP, ELE	CT 3.3-50V 3-50 CT 10-50V CT 0.22-50V		CN609 LED601 LED602	87-099-200-010 87-099-200-010 88-CD6-630-010 88-CD6-630-010 88-CD6-630-010	CONN LED, LED,	1,7P 6216H 1,7P 6216H 934ID RED 934ID RED 934ID RED
C425 C429 C430 C431	87-012-157-080 87-010-176-080 87-010-186-080 87-012-156-080 87-010-545-080 87-010-374-080	C-CAP,S CAP,CHIP C-CAP,S CAP, ELE	330P-50 CH 680P-50 SL 4700P 220P-50 CH CT 0.22-50V CT 47-10V		LED606	88-CD6-630-010 88-CD6-630-010 88-CD6-630-010 88-CD6-630-010 88-CD6-631-010	LED, LED, LED,	934ID RED 934ID RED 934ID RED 934ID RED 934GD GRN
C433	87-010-401-080	CAP, ELE	CT 1-50V	1	KEY C.B			
C435 C436 C437	87-010-184-080 87-010-197-080 87-010-374-080 87-010-404-080 87-012-368-080	CAP, CHI CAP, ELE CAP, ELE	3300P-50 KB P 0.01 DM CT 47-10V CT 4.7-50V 0.1-50 ZF	-	S608 S609 S610	87-A60-109-010 87-A90-164-080 87-A90-164-080 87-A90-164-080 87-A90-164-080	SW,T SW,T SW,T	I, 2PIN PACT SKQNAB(N) PACT SKQNAB(N) PACT SKQNAB(N) PACT SKQNAB(N)
C445 C446 C447	87-010-314-080 87-012-368-080 87-012-368-080 87-012-368-080 87-010-315-080	C-CAP,S C-CAP,S	22P-50V 0.1-50 ZF 0.1-50 ZF 0.1-50 ZF 27P-50 CH			87-A90-164-080 87-A90-164-080		PACT SKQNAB(N) PACT SKQNAB(N)
C451 C455 C457	87-012-140-080 87-012-156-080 87-010-263-080 87-010-312-080 87-010-312-080	CAP, ELE C-CAP,S	220P-50 CH CT 100-10V 15P-50 J CH 15P-50 J CH			87-A60-569-010	JACK	,HTJ-035-18
C460 C461 C462	87-010-263-080 87-010-197-080 87-012-368-080 87-010-248-080 87-010-404-080	C-CAP,S C-CAP,S CAP,E 22	0.1-50 ZF	٨	C902 C903 C904	87-A10-577-080 87-A10-577-080 87-A10-577-080 87-A10-577-080 87-A10-577-080 87-035-347-010	CAP, CAP, CAP,	CER 0.022-25 CER 0.022-25 CER 0.022-25 CER 0.022-25 C,2.5A 250V T <except ez=""></except>
C467 C468 C469	87-012-368-080 87-010-263-080 87-012-368-080 87-018-121-080 87-010-544-080	CAP, ELE C-CAP,S CAP,150P	0.1-50 ZF CT 100-10V 0.1-50 ZF -50V CT 0.1-50V	<u>^</u>	FC902	87-A90-505-080 87-A90-505-080 87-A90-092-080	FUSE	HOLDER <except ez=""> HOLDER<except ez=""> ECTOR 2.5A 491 60V<ez></ez></except></except>

REF. NO. PART NO.

KANRI NO.

DESCRIPTION

M2 PIN3

9X-262-576-910 91-564-722-110 91-572-085-120

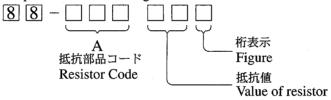
MOTOR GEAR ASS CONNECTOR 6P LEAF SW

SW1

〇チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗 Chip resistor

Chip resistor								
容量	種類	許容誤差	記号	寸法/Dim	ensions ((mm)		抵抗コード : A
Wattage	Type	Tolerance	Symbol	外形/Form	L	W	t	Resistor Code: A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ	<u> </u>	1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ	r	3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



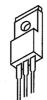
ЕСВ

2SA933 2SC1740 DTA114YS DTC114TS DTC114YS DTC124XS



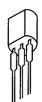
ЕСВ

2SA1015 2SA1296 2SA1318 2SC1815 2SC1923 2SC2001



 \dot{B} C E

2SB1370



SGD

2SJ103

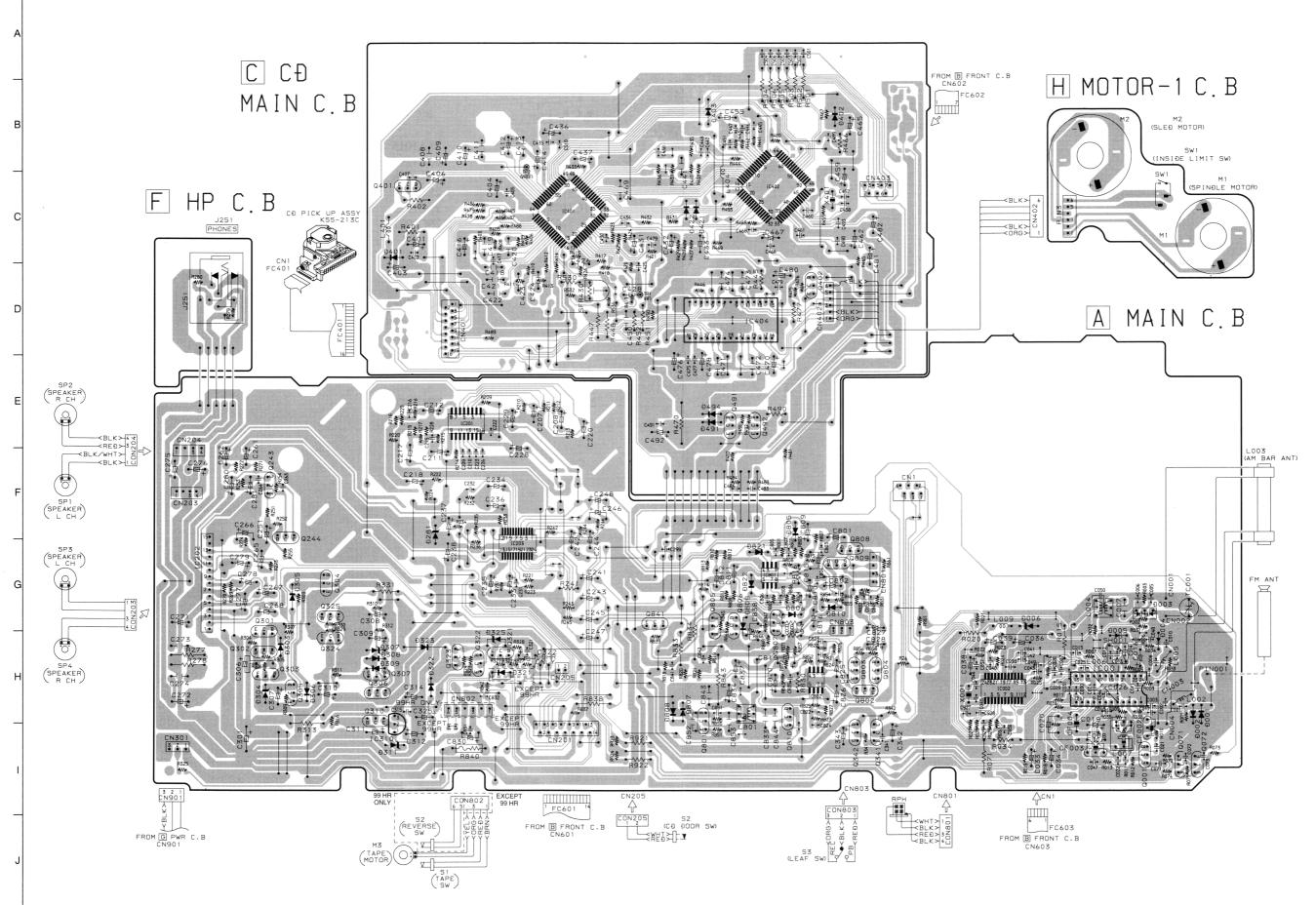


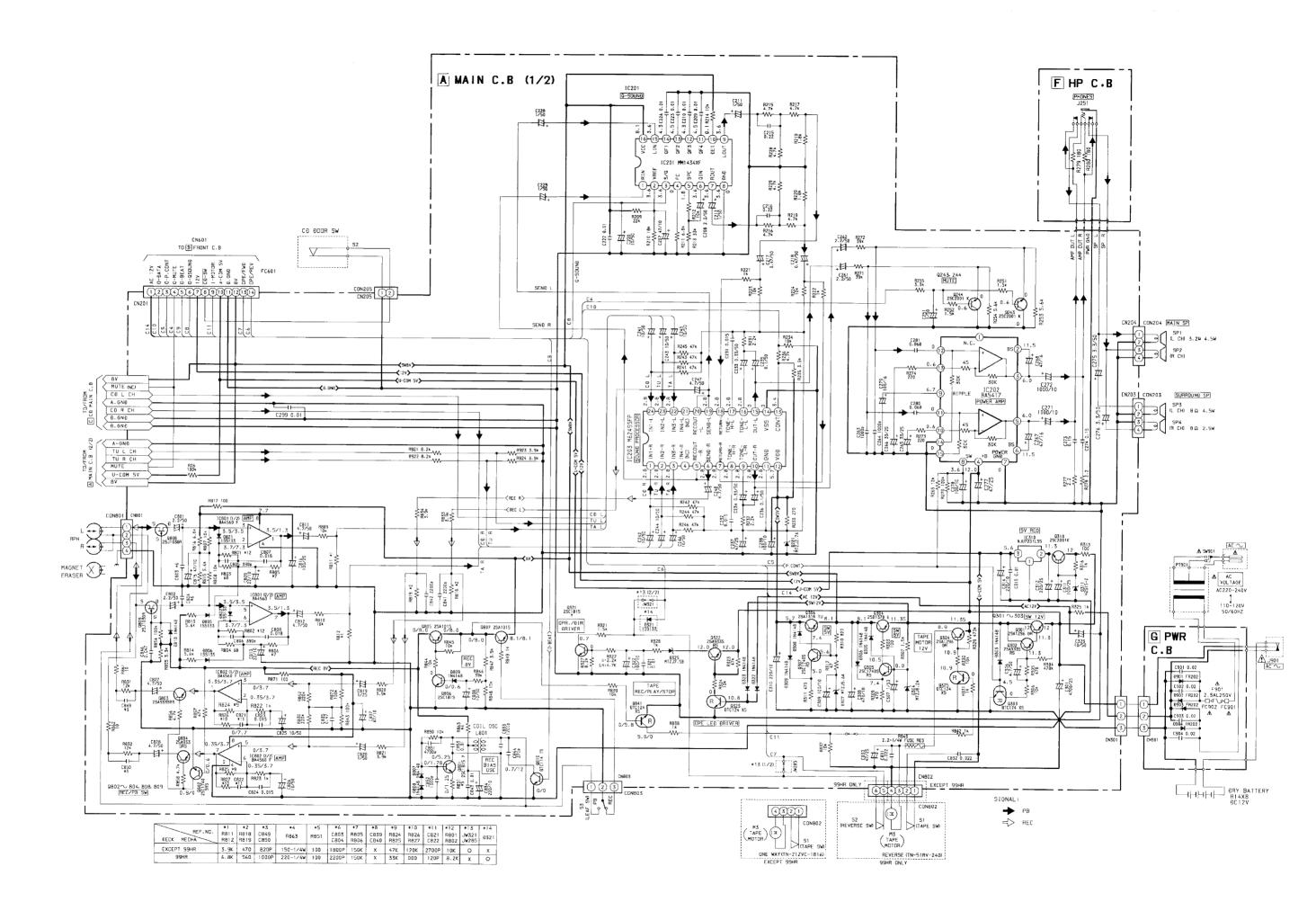
G S D

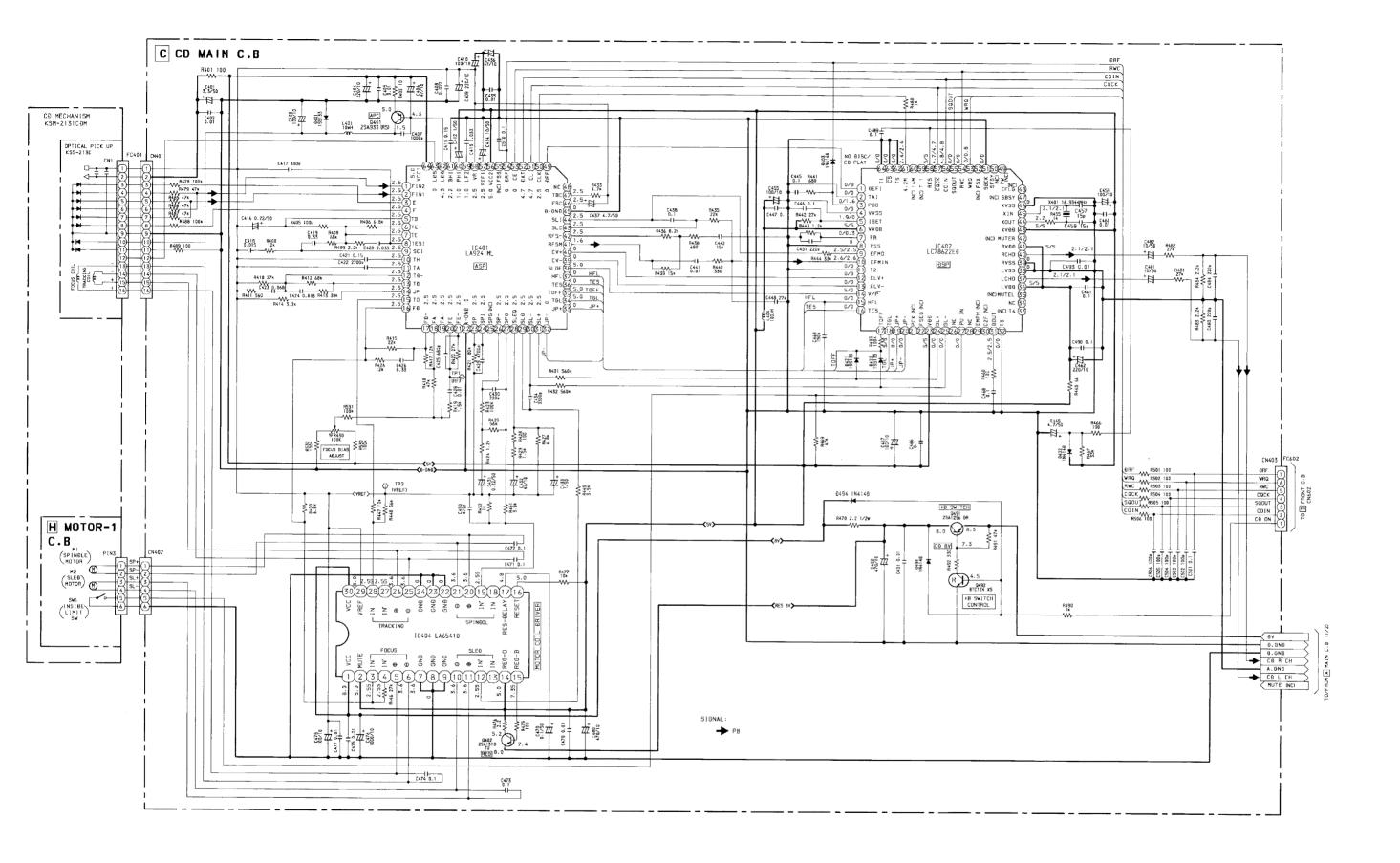
2SK439

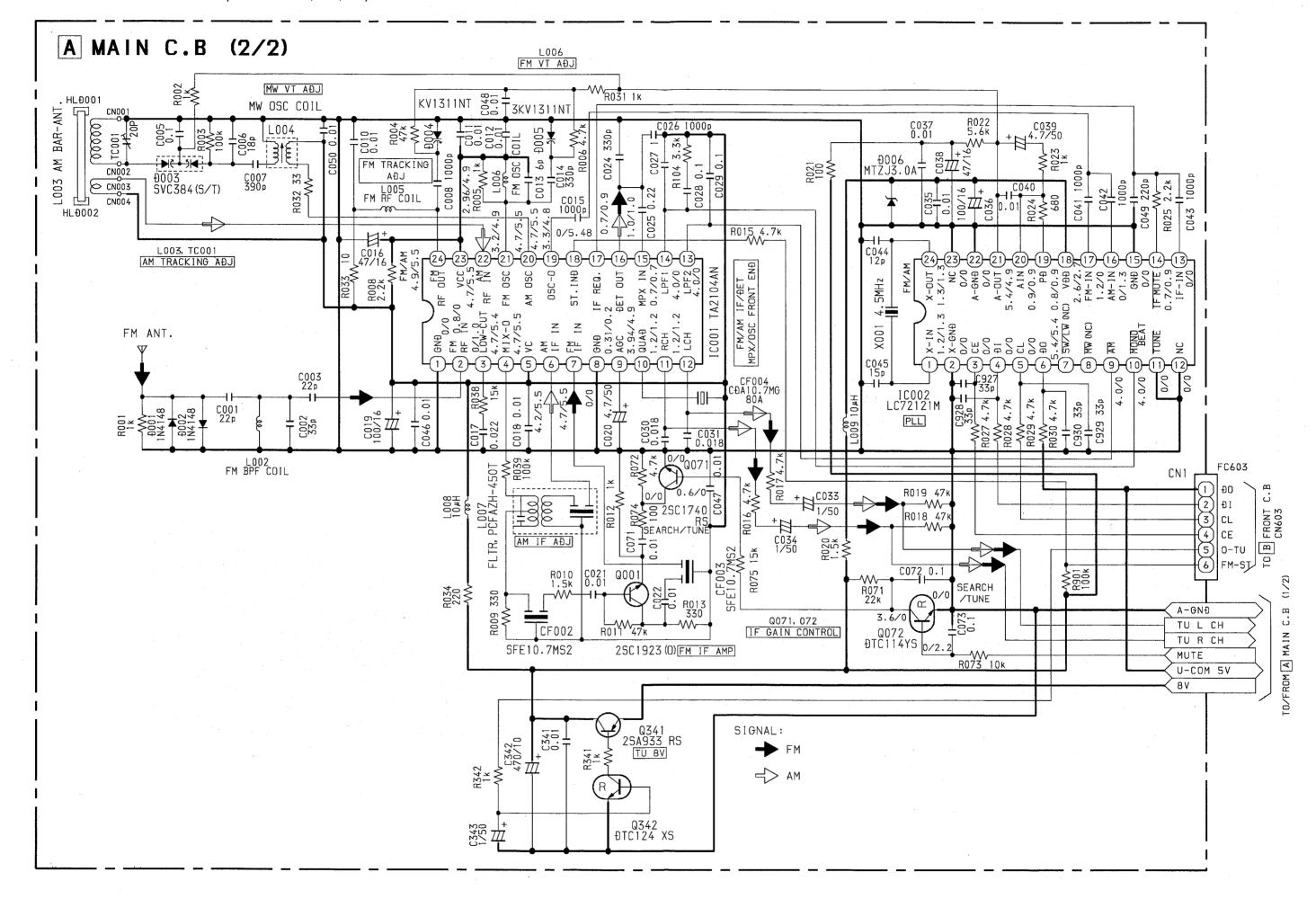


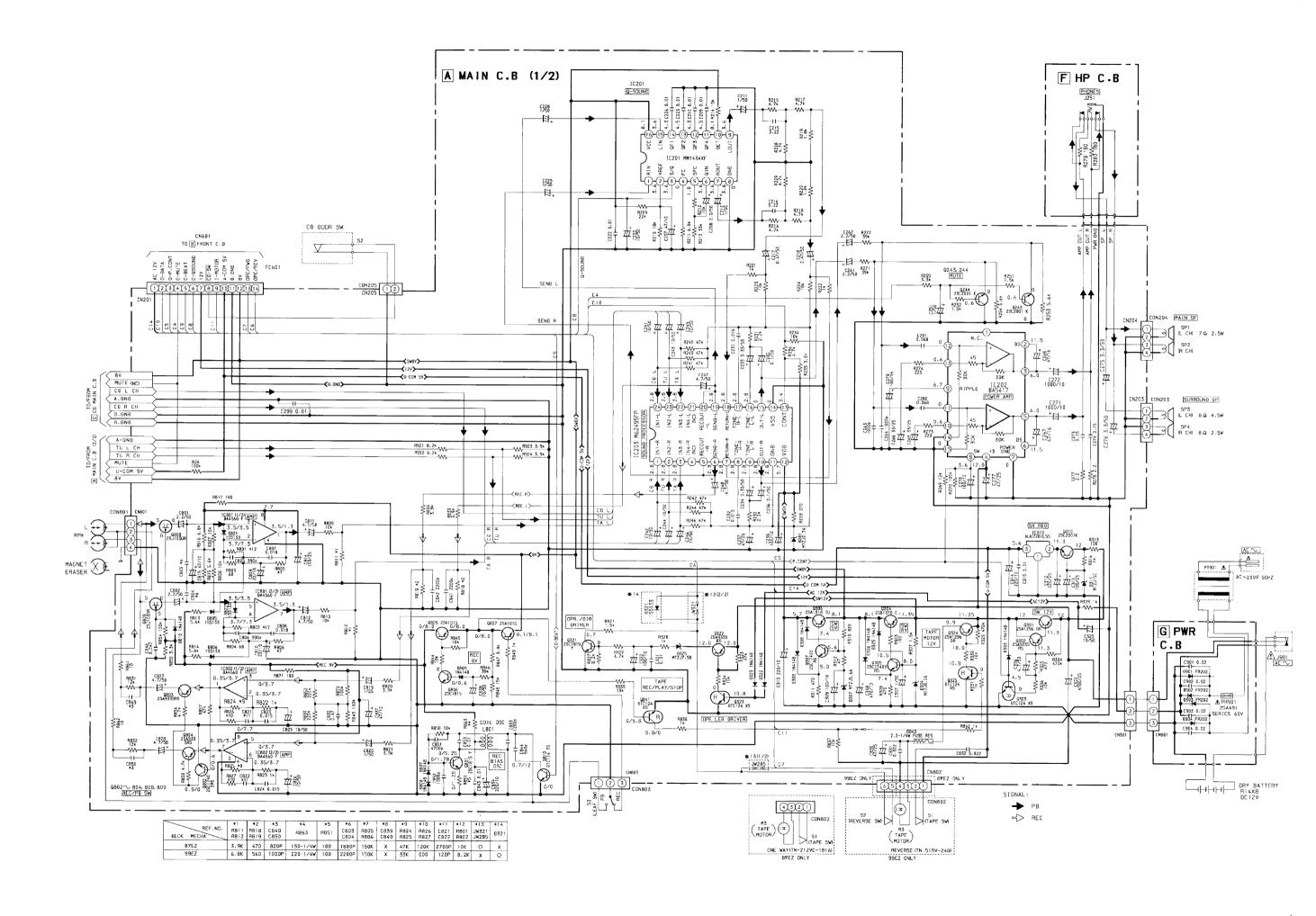
DTC114TK

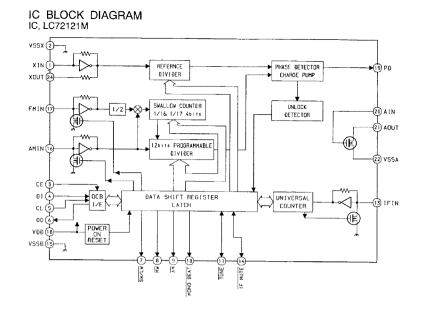


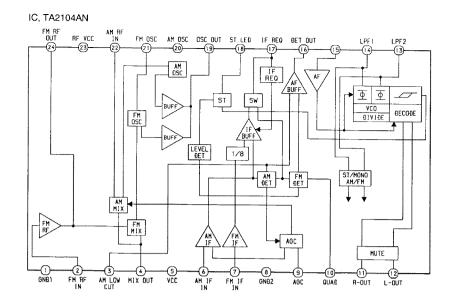


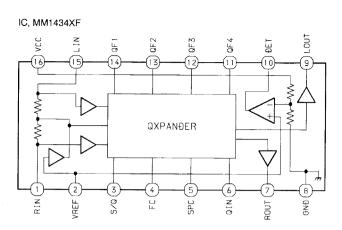






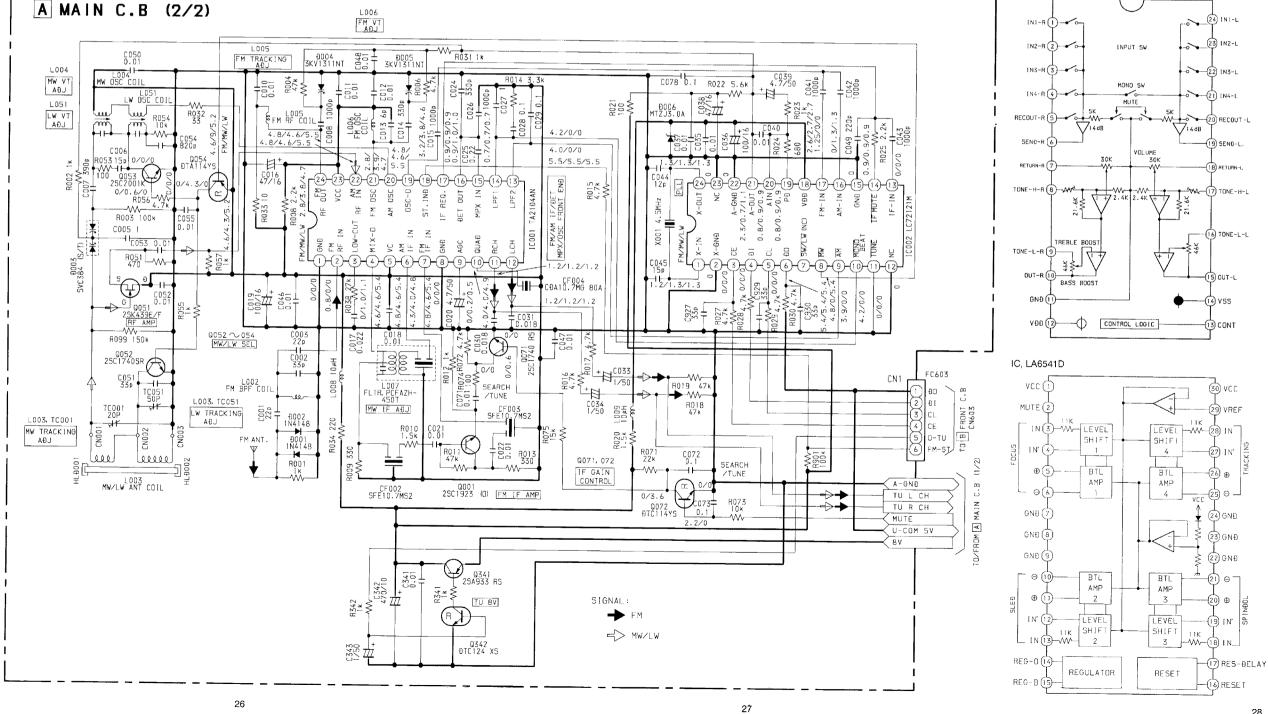






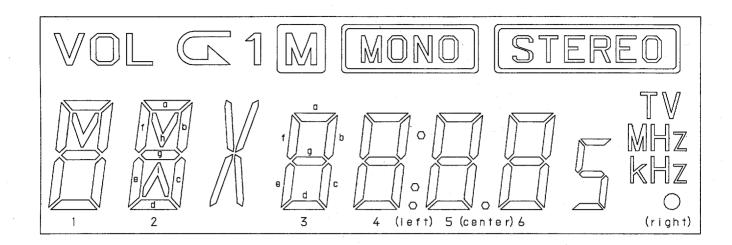
IC, M62495FP

SCHEMATIC DIAGRAM - 5 (TUNER : EZ)

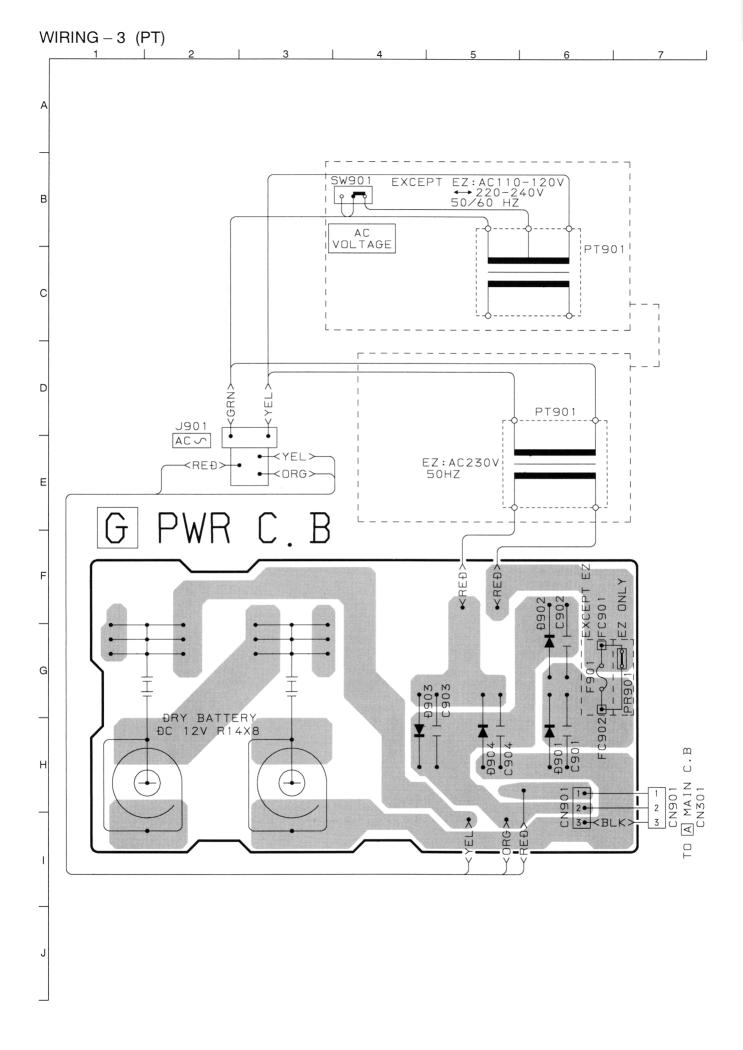


LCD DISPLAY

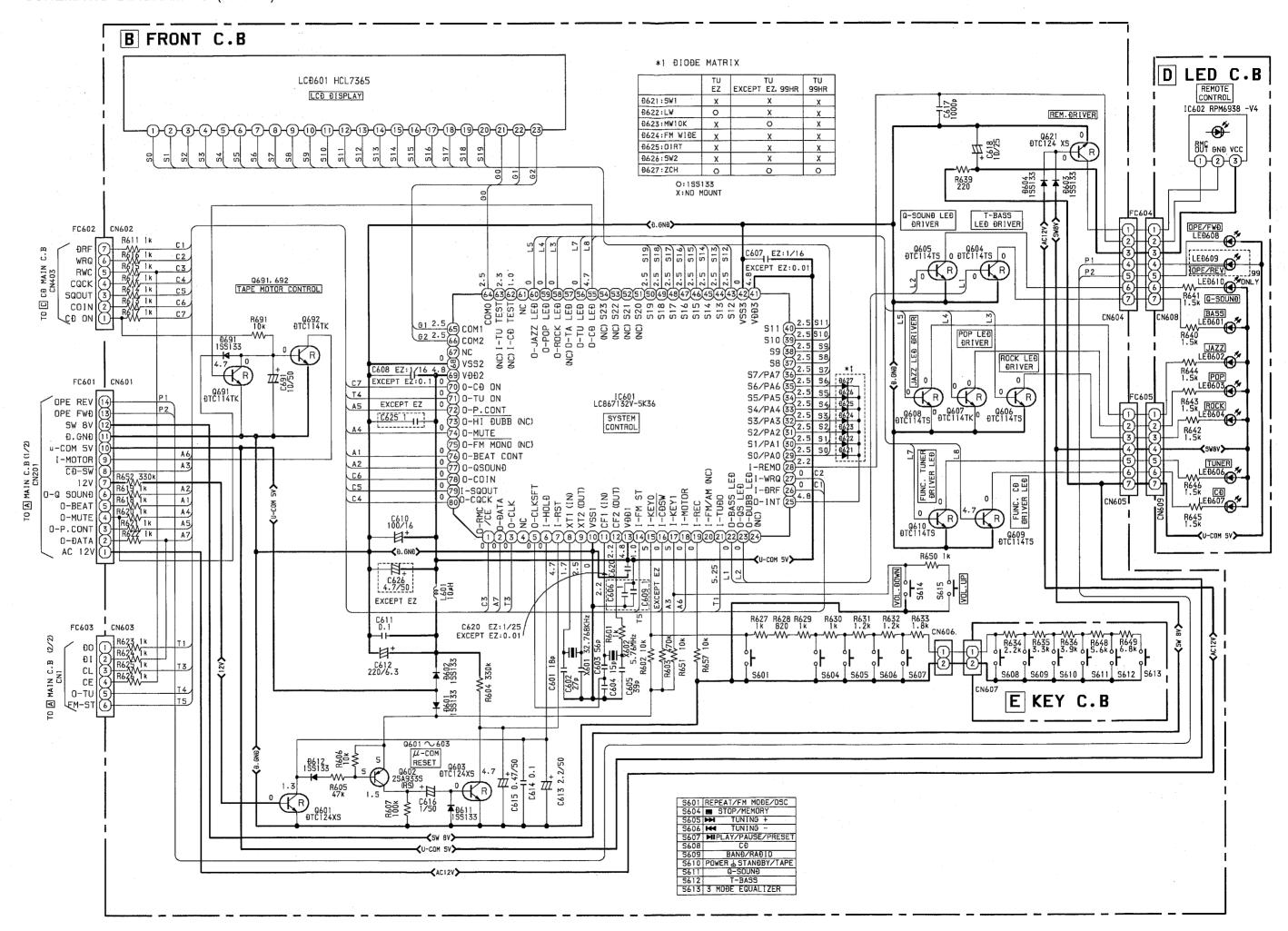
LCD HLC7365

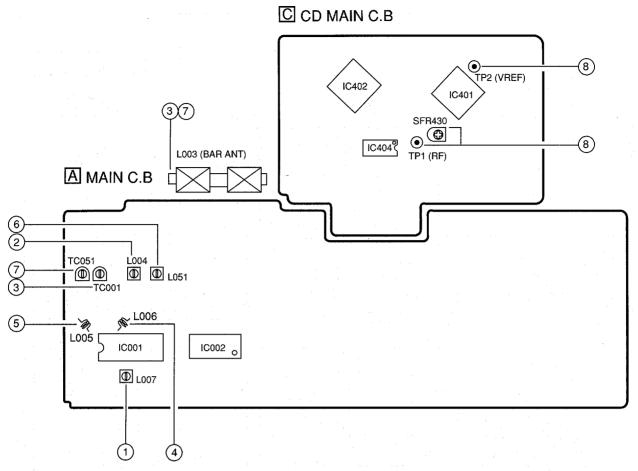


NO.	COM.1	COM.2	COM.3
1	2b	2 c	2 d
2	1 b	1 c	1 d
3 4	1 a	1 f	1 e
4	1 h	1 g	VOL
5	2 a	. 2f	2 e
6	2 h	2 g	21
7	3 f	3e	9
8	3a	3g	3 d
9	3b	3c	1
10	4 f	40	M
11	4a	4 g	4 d
12	4b	4 c	X
13	:	● (left)	MONO
14	5 f	5e	• (right)
15	5a	5g	5d
16	5b	5c	• (center)
1 <i>7</i>	6 f	6 e	STEREO
18	6a	6 g	6a
19	6b	6c	5
20	TV	MHz	kHz
21	COM.1		
22		COM.2	
23			COM.3



31





< TUNER SECTION >

1. AM (MW) IF Adjustment

AM (MW) VT Adjustment

Settings: • Test point: TP3

Adjustment location: L004

Method:

Set to AM (MW) 1710kHz (HA, LH), 1602kHz (HR)

1611kHz (EZ) and adjust L004 so that the test point is 6.0 ± 0.05 V (HA, LH), 5.6 ± 0.05 V (HR, EZ).

3. AM (MW) Tracking Adjustment

L003 600kHz (HA, LH), 603kHz (HR, EZ) TC001 1400kHz (HA, LH), 1404kHz (HR, EZ)

4. FM VT Adjustment

Settings: • Test point: TP3

• Adjustment location: L006

Set to FM 108MHz and adjust L006 so that the test

point is 6.0 ± 0.05 V.

5. FM Tracking Adjustment

6. LW VT Adjustment<EZ>

Settings:

• Test point : TP3

Adjustment location: L051

Set to LW 288kHz and adjust L051 so that the test Method:

point is 4.5 ± 0.05 V.

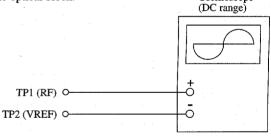
7. LW Tracking Adjustment<EZ>

L003 153kHz

< CD SECTION >

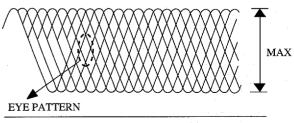
8. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing Oscilloscope (DC range) the optical block.



- 1) Connect an oscilloscope to the test points TP1 (RF) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR430 so that RF signal of the test point TP1 (RF) is MAX and CLEAREST.

RF signal waveform



Must be CLEAR and MAX

VOLT / DIV: 50mV TIME / DIV: 0.5µs

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity:

Less than 18dB

(THD 3%)

[at 87.5 / 98 / 108MHz] Mono: More than 66dB

Signal to noise ratio: Stereo: More than 58dB

[at 98MHz]

Distortion:

Less than 3% [at 98MHz]

Auto stop level:

 $24dB \pm 10dB$

Stereo separation:

[at 87.5 / 98 / 108MHz] More than 20dB [at 98MHz]

Intermediate frequency: 10.7MHz

<AM(MW) SECTION>

Sensitivity: S/N (10dB)

Less than 48dB [at 600kHz]

Less than 46dB [at 1000kHz] Less than 44dB [at 1400kHz]

Signal to noise ratio:

More than 30dB

[at 600 / 1000 / 1400kHz]

Distortion:

Less than 3% [at 1000kHz]

Auto stop level:

Less than 70dB [at 600kHz] Less than 65dB [at 1000kHz] Less than 60dB

[at 1400kHz] Intermediate frequency: 450kHz

<LW SECTION> (EZ)

Sensitivity: (S/N 10dB)

Less than 60dB [at 153kHz] Less than 58dB at [198kHz]

Less than 56dB [at 288kHz]

Signal to noise ratio:

More than 30dB [at 153 / 198 / 288kHz]

Distortion:

Less than 3% [at 198MHz] Less than 80 / 75 / 70dB

Auto stop level:

[at 153 / 198 / 288kHz]

Intermediate frequency: 450kHz

<DECK_SECTION>

Tape speed:

3000Hz +90 / -60Hz (TN-21ZVC-1816)

 $3000Hz \pm 90Hz (TN-51RV-240)$

Wow & flutter:

Distortion:

S/N ratio:

Less than 0.4% (R.M.S)

Take-up torque:

30 ~ 60g-cm (FWD) (TN-21ZVC-1816)

20 ~ 60g-cm (FWD) (TN-51RV-240)

F.F & REW torque:

55 ~ 140g-cm (TN-21ZVC-1816)

55 ~ 120g-cm (TN-51RV-240)

Less than 3% (PB, 1kHz, DC)

Less than 5% (REC/PB, 1kHz, DC)

More than 35dB (PB, AC, DC)

More than 25dB (REC/PB, AC, DC)

Less than 45mV (PB, DC, AC, VOL MAX)

Max Noise level: Min Noise level:

Less than 1mV (PB, DC, VOL MIN)

Less than 1.2mV (PB, AC, VOL MIN)

Erasing ratio: Test tape:

More than 45dB

TTA-100 TTA-210

TTA-782

TTA-602 (NORMAL)

Pin No.	Pin Name	I/O	Description
1	O-RMC/CE	0	CD read/write control output and TU CE.
2 .	O-DATA	0	Data output to LC72121M, M62495FP.
3	O-CLK	0	Output LC72121M CLK.
4	NC	-	Not Connected.
5	O-CK SFT	0	Clock shift output of the microcomputer.
6	I-HOLD	I	Hold status detection.
7	I-RST	I	Microcomputer reset.
8	XT1 (IN)	I	
. 9	XT2 (OUT)	0	Connected to 32.768KHZ crystal oscillator.
10	VSS1	_	GND.
11	CF1 (IN)	I	
12	CF2 (OUT)	0	Connected to 6MHZ Ceramic Filter.
13	VDD1	_	Power supply for microcomputer (+5V).
14	I-FM ST	I.	FM STEREO status input.
15	I-KEYO	I	KEY AD input.
16	I-CD SW	I	CD DOOR SW status detection input.
17	I-KEY1	I	KEY AD input.
18	I-MOTOR	I	DECK MECHA MOTOR status input.
19	I-REC	I	REC status input.
20	I-FM/AM (NC)	I	FM, AM status input. (Not connected)
21	I-TU DO	I	Data input from LC72121M.
22	O-BASS LED	О	BASS LED ON/OFF control output.
23	O-QS LED	0	Q-Sound LED ON/OFF control output.
24	O-DUBB LED (NC)	0	LED control output used for high-speed dubbing. (Not connected)
25	O-INT	О	INT DIODE MATRIX detection output.
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-REMO	I	Remote control input.
29	SO-PAO	0	LCD segment output and initial settings output. (SW)
30	S1/PA1	0	LCD segment output and initial settings output. (LW)
31	S2/PA2	0	LCD segment output and initial settings output. (MW 10K)
32	S3/PA3	О	LCD segment output and initial settings output. (FM WIDE)
33	S4/PA4	0	LCD segment output and initial settings output. (OIRT)
34	S5/PA5	0	LCD segment output and initial settings output. (SW2)
35	S6/PA6	0	LCD segment output and initial settings output. (ZCH)
36	S7/PA7	О	·
37~40	S8~S11	О	LCD segment output and initial settings output.
41	VDD3	_	Power supply for microcomputer (+5V).
42	VSS3		GND.
43~50	S12~S19	0	LCD segment output.
51~54	\$20~\$23 (NC)	0	LCD segment output. (Not Connected)
55	O-CD LED	О	LED ON/OFF control output for CD functions.

Pin No.	Pin Name	I/O	Description
56	O-TU LED	0	LED ON/OFF control output for TU functions.
57	O-TA LED (NC)	0	LED ON/OFF control output for TAPE functions. (Not Connected)
58	O-ROCK LED	0	LED ON/OFF control output for ROCK.
59	O-POP LED	0	LED ON/OFF control output for POP.
60	O-JAZZ LED	0	LED ON/OFF control output for JAZZ.
61	NC	-	
62	I-CD TEST (NC)	I	Not connected.
. 63	I-TU TEST (NC)	I	
64~66	COM0~COM2	0	LCD common output.
67	NC	_	Not connected.
68	VSS2	_	GND.
69	VDD2	-	Power supply for microcomputer (+5V).
70	O-CD ON	0	CD PWR control output.
71	O-TU ON	0	TU PWR control output.
72	O-P.CONT	0	Power supply control output.
73	O-HI DUBB (NC)	О	Dubbing speed control output. (Not connected)
74	O-MUTE	О	Main mute output.
75	O-FM MONO (NC)	0	FM force control MONO output. (Not connected)
76	O-BEAT CONT	0	BEAT switch over output.
77	O-QSOUND	0	Q-Sound ON/OFF output.
78	O-COIN	0	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	0	CLK for CD commands/sub-codes.

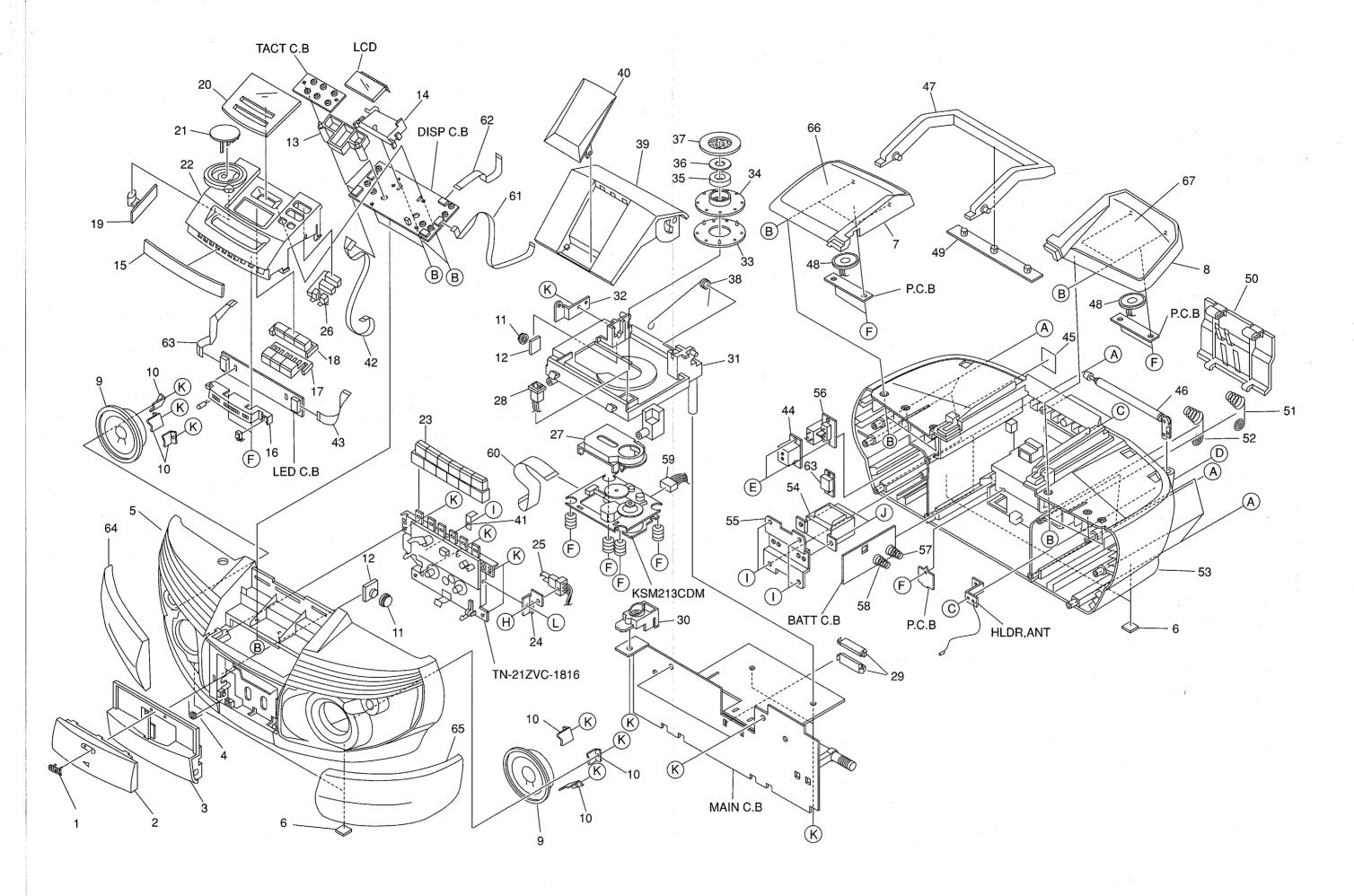
Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input terminal.
2	TAI	I	A pull-down resistor is built in. (Connected to 0V)
3	PDO	0	External VCO control phase comparator output.
4	VVSS	-	Connected to internal VCO of PLL. (Connected to 0V)
5	ISET	I	PDO output current adjustment resistor connection.
6	VVDD	-	Voltage terminal for internal VCO of PLL.
7	FR	I	VCO frequency range adjustment.
8	VSS	_	Digital system ground. (Connected to 0V)
9	EFMO	0	EFM signal output pin.
10	EFMIN	I	EFM signal input pin.
11	T2	I	Test pin. (Connected to 0V)
12	CLV+		
13	CLV-	0	Disc motor control output.
	_		Rough servo/phase control automatic switching monitor output.
14	V/P	0	Rough servo at "H". Phase control at "L".
15	HFL	I	Track detection signal input.
16	TES	I	Tracking error signal input.
17	TOFF	0	Tracking off output.
18	TGL	0	Tracking gain switching output.
19	JP+		
20	JP-	0	Track jump output.
21	PCK	0	EFM data playback monitor. Outputs 4.3218MHz when the phase is locked. (Not used)
22	FSEQ	0	Synchronization signal detection output. Outputs a "H" level when the synchronization signal detected from EFM signal and internally generated synchronization signal range.(Not used)
23	VDD	_	Digital system power supply.
24	SL+		
25	SL-	-	Serial data command sled signal output terminal from microprocessor.
26	NC	_	Not used.
27	PU IN	I	CD pickup inside limit switch. (Not used)
28	NC	_	Not used.
29	ЕМРН	О	De-emphasis monitor pin. A "H" level indicates playback of a de-emphasis disc. (Not used)
30	C2F	0	C2 flag output. (Not used)
31	DOUT	0	Digital output (EIAJ format). (Not used)
32	T3	I	Test input. (Connected to 0V)
33	T4	I	Test input. (Connected to 0V)
34	NC		Not used.
35	MUTEL	0	Left channel mute output. (Not used)
36	LVDD	_	Left channel power supply.
37	LCHO	О	Left channel output.

Pin No.	Pin Name	I/O	Description
38	LVSS	_	Left channel ground.
39	RVSS	_	Right channel ground.
40	RCHO	0	Right channel output.
41	RVDD	_	Right channel power supply.
42	MUTER	0	Right channel mute output. (Not used)
43	XVDD	_	Crystal oscillator power supply.
44	XOUT	0	Company from 14 0244MII amountal application alarmount
45	XIN	I	Connections for a 16.9344MHz crystal oscillator element.
46	XVSS	-	Crystal oscillator ground.
47	SBSY	0	Subcode block synchronization signal. (Not used)
48	EFLG	0	C1, C2 single and double error correction monitor pin. (Not used)
49	PW	0	Subcode P,Q,R,S,T,U and W output. (Not used)
50	SFSY	0	Subcode frame synchronization signal output. (Not used)
51	SBCK	I	Subcode readout clock input. (Connected to 0V)
52	FSX	0	Output for the 7.35kHz synchronization signal divided from the crystal oscillator. (Not used)
53	WRQ	0	Subcode Q output standby output.
54	RWC	I	Read/Write control input.
55	SQOUT	0	Subcode Q output.
56	COIN	I	Command input from the control microprocessor.
57	CQCK	I	Input for command input acquisition clock and SQOUT pin subcode readout clock.
58	RES	I	Chip reset input.
59	· T11	0	Test output. Leave open. (Not used)
60	16M	О	16.9344MHz output. (Not used)
61	4.2M	0	4.2336MHz output.
62	T5	I	Test input. (Connected to 0V)
63	CS	I	Chip select input. (Connected to 0V)
64	T 1	I	Test input. (Connected to 0V)

IC, LA9241ML

Pin No.	Pin Name	I/O	Description			
1	FIN2	I	Connected to pickup photo-diode. Adding with FIN1 pin generates RF signal, and subtracting from FIN1 generates FE signal.			
2	FIN1	I	Connected to pickup photo-diode.			
3	Е	I	Connected to pickup photo-diode. Subtracting from F pin generates TE signal.			
4	F	I	Connected to pickup photo-diode.			
5	TB	I	Input DC components of TE signal.			
6	TE-	0	Connected to TE pin with resistor set TE signal gain.			
7	TE	0	Output TE signal.			
8	TESI	I	Input TES (TRACK ERROR SENSE) comparator. Band pass and input TE signal.			
9	SCI	I	Input shock detection.			
10	TH	I	Establish tracking gain value.			
11	TA	0	TA amplifier output.			
12	TD-	I	Compose tracking phase compensation value between TD and VR pins.			
13	TD	0	Used for tracking phase compensation setting.			
14	JP	I	Establish amplitude of tracking jump signal (kick pulse).			
15	ТО	0	Output tracking control signal.			
16	FD	0	Output focusing control signal.			
17	FD-	I	Compose focusing phase compensation value between FD and FA pins.			
18	FA	0	Compose focusing phase compensation value between FD- and FA- pins.			
19	FA-	I	Compose focusing phase compensation value between FA and FE pins.			
20	FE	0	Output FE signal.			
21	FE-	I	Connected to FE pin with resistor set FE signal gain.			
22	AGND	_	Analog GND.			
23	SP	0	Output single-end for CV+ and CV- pins input signal.			
24	SPI	I	Spindle amplifier input.			
25	SPG	I	Connect resistor for gain setting at spindle 12cm mode. (Not used)			
26	SP-	I	Connect spindle phase compensation value with SPD pin.			
27	SPD	0	Output spindle control signal.			
28	SLEQ	I	Connect sled phase compensation value.			
29	SLD	0	Output sled control signal.			
30	SL-	т	Junit alad and die a signal fram DCD			
31	SL+	I	Input sled sending signal from DSP.			
32	JP-	r	Input treaking jump signal from DCD			
33	JP+	I	Input tracking jump signal from DSP.			
34	TGL	I	Input tracking gain control signal from DSP. TGL = "H" : Gain low.			
35	TOFF	I	Input tracking off control signal from DSP. TOFF = "H" : Off.			
36	TES	0	Output TES signal to DSP.			
37	HFL	0	HIGH FREQUENCY LEVEL: Detects whether main-beam is on pit or mirror position			
38	SLOF	I	Input sled servo off control.			
39	CV-		Level CLV and a level DCD			
40	CV+	I	Input CLV error signal from DSP.			

Pin No.	Pin Name	I/O	Description
41	RFSM	0	Output RF.
42	RFS-	0	Establish RF gain and 3T compensation value from EFM signal with RFSM pin.
43	SLC	0	SLICE LEVEL CONTROL: Control data slice level by DSP with RF waveform.
44	SLI	I	Control data slice level by DSP.
45	DGND	-	Digital GND.
46	FSC	0	Connected to focus search smoothing capacitor.
47	TBC	I	TRACKING BALANCE CONTROL: Establish EF balance variable range.
48	NC	_	Not used.
49	DEF	0	Output disc defect detection.
50	CLK	I	Input reference clock. Inputs 4.23MHz from DSP.
51	CL	I	Input microcomputer command clock.
52	DAT	I	Input microcomputer command data.
53	CE	I	Input microcomputer command chip enable.
54	DRF	0	Detect RF: Output RF level detection.
55	FSS	I	FOCUS SEARCH SELECT: Switches focus search mode (between ± search and + search against reference voltage). (Not used)
56	VCC2	-	Servo/digital VCC.
57	REF1	-	Connected to reference voltage bypass condenser.
58	VR	0	Output reference voltage.
59	LF2		Establish value in detecting disc defect.
60	PHI		Connected to capacitor used to hold peak of RF signal.
61	ВНІ	_	Connected to capacitor used to hold bottom of RF signal.
62	LDD	0	APC-circuit output pin.
63	LDS	I	APC-circuit input pin.
64	VCC1	_	RF VCC.



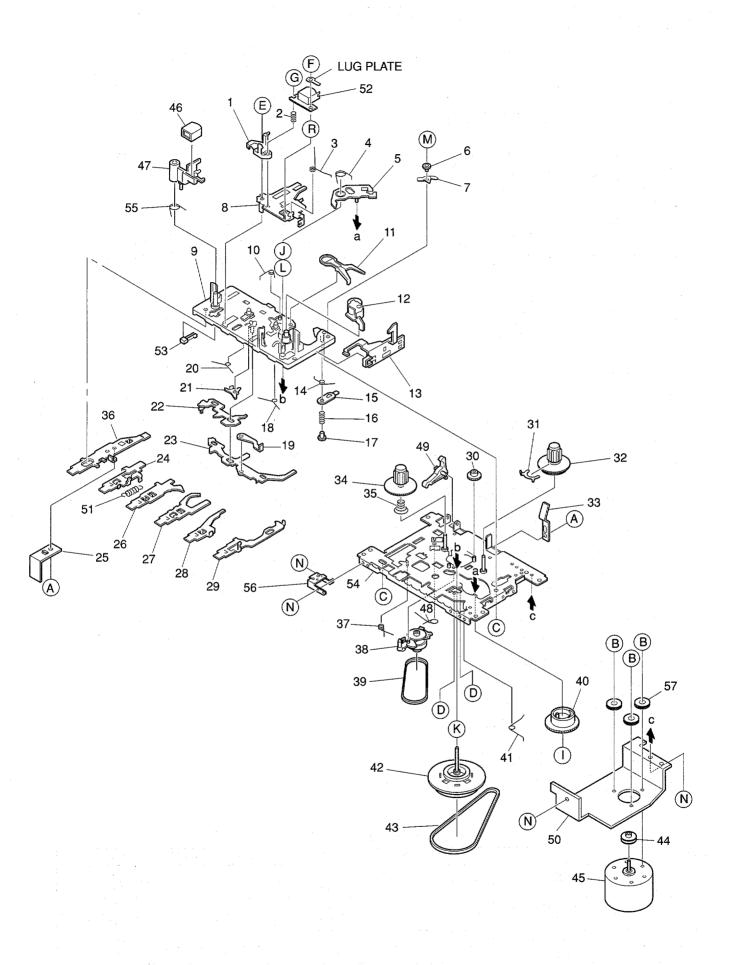
MECHANICAL PARTS LIST 1/1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	Kanri No.	DESCRIPTION		REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	
2 2 3	87-B00-020-010 8Z-CH4-007-010 8Z-CHR-003-010 8Z-CHE-003-010 8Z-CHR-009-010	BADGE, A WINDOW, WINDOW, BOX, CAS	IWA 30 GOLD CASS <except 99hr,99ez<br="">CASS 24<99HR,99EZ> S 14<except 99hr,99ez<br="">S 24<99HR,99EZ></except></except>	Z> Z>	43 44 45 46 47	8Z-CH4-620-010 87-A90-086-010 87-CD6-041-010 8Z-CH4-640-010 8Z-CH4-009-010	FF-CAB COVER, PLATE, ANT, ROI HANDL,		
5 5 6	8Z-CH4-205-010 8Z-CHE-002-010 8Z-CHR-002-010 86-CT4-218-010 8Z-CH4-019-110	SPR-T,C CABI,FR CABI,FR CUSHION CABI,TO	ASS 14A <except 99hr,99e2<br="">24A<99HR,99EZ> ,FOOT/PORON P 2L</except>	3>	48 49 50 51 52	8Z-CH4-645-010 8Z-CH4-010-010 8Z-CH4-008-010 87-CD6-223-010 87-CD6-214-010	SPKR, M. HANDL, C LID, BA SPR-C, 1 SPR-C, 1		
9 9 10	8Z-CH4-020-110 88-CD5-602-010 88-CD5-603-010 8Z-CH4-204-010 84-CD5-215-010	SPKR 4' SPKR,10 HLDR,SP GEAR	3.2 <except 89ez,99ez=""> 7OHM<89EZ,99EZ> EAKER</except>		54 55 55 55	8Z-CH4-209-010 8Z-CH4-220-010	PT, E<8! PT, H <e hldr,="" p'="" p'<="" td=""><td>EAR LH 9EZ,99EZ> KCEPT 89EZ,99EZ> r<bxcept 99hr,99ez<br="">r B<99HR,99EZ></bxcept></td><td>3></td></e>	EAR LH 9EZ,99EZ> KCEPT 89EZ,99EZ> r <bxcept 99hr,99ez<br="">r B<99HR,99EZ></bxcept>	3>
13 14 15	84-CD5-216-010 8Z-CH4-216-010 8Z-CH4-201-010 8Z-CHE-018-010 8Z-CHE-006-010	BRACKET HLDR, FU HLDR, LC WINDOW, WINDOW,	NC-PWB O LED 14A<89HR,89EZ> LED 14LH<89LH,89HA>		♠ 5657585960	87-A60-178-010 87-CD6-222-010 87-CD6-213-010 8Z-CH4-614-010 8Z-CH4-618-010	JACK, AG SPR-C, 1 SPR-C, 1 CONN AG FF-CAB	C E W/SW BATT (-) L BATT (-) SSY,6P CD-ME LE, 16P CD-RF	
16 17 18	8Z-CHR-017-010 8Z-CH4-210-010 8Z-CH4-027-010 8Z-CH4-026-010 8Z-CH4-025-010	WINDOW, HLDR, LE BTN, EQ BTN, FUN BTN, REP	LED 24A<99HR,99EZ> D C EAT		£ 62 € 63 64	8Z-CH4-621-010 8Z-CH4-619-010 87-A91-369-010 8Z-CHE-014-010 8Z-CHR-013-010) FF-CAB:) SW,AC :) GRILLE	LE, 7P CD-FR LE, 14P AF-FR SL 2 2 2 SDKGA4170 FR L 14 <except 99<br="">FR L 24<99HR,99EZ</except>	HR,99EZ>
20 20 20	8Z-CHE-011-010 8Z-CHE-012-010 8Z-CHR-010-010 8Z-CHR-011-010 8Z-CH4-023-110	WINDOW, WINDOW, WINDOW, WINDOW,	LCD<89HR,89LH,89HA> LCD 14EZ<89EZ> LCD 24<99HR> LCD 24EZ<99EZ>		65 65 66 66	8Z-CHE-015-010 8Z-CHR-014-010 8Z-CHE-016-010 8Z-CHR-015-010 8Z-CHE-017-010	GRILLE GRILLE GRILLE GRILLE GRILLE GRILLE	FR R 14 <except 99<br="">FR R 24<99HR,99EZ TOP L 14<except f<br="">TOP L 24<99HR,99E TOP R 14<except f<="" td=""><td>i> ED99> EZ></td></except></except></except>	i> ED99> EZ>
22 23 23	8Z-CHE-009-010 8Z-CH4-014-010 8Z-CH4-028-010 8Z-CH4-029-010 8Z-CH4-214-010	PANEL, L PANEL, L KEY, CAS KEY, CAS HLDR, RE	CD <except 99hr,99ez=""> CD51<99HR,99EZ> S 21<except 99hr,99ez<="" td=""><td>\$> "</td><td>67 A B</td><td>8Z-CHR-016-010 87-B10-242-010 87-B10-239-010</td><td>GRILLE UT2+3-3 QT2+3-3</td><td></td><td>3Z></td></except></except>	\$> "	67 A B	8Z-CHR-016-010 87-B10-242-010 87-B10-239-010	GRILLE UT2+3-3 QT2+3-3		3Z>
25 26 27	8Z-CH4-215-010 87-A91-151-010 8Z-CH4-024-010 88-CH6-019-010 87-036-389-010	HLDR, RE SW, LEAF BTN, CD PANEL, C	C-SW 51<99HR,99EZ> 1P2T/TC48-021 C		E F G H I	87-254-097-410 87-254-097-410 87-751-075-410 87-751-094-410 87-261-037-410 87-661-100-410	VT2+2.0 UT2+2.0 VT2+3-0 V+2-10 VFT1+3-0	5-8 5 W10SLOT GLD	
30 31 32	8Z-CH4-208-010 8Z-CH4-030-110 8Z-CH4-003-010 8Z-CH4-207-010 8Z-CH4-212-010	COVER, CHAS,CD HLDR,OI	PH L-DMPR		K	87-067-566-010 87-741-095-410 87-571-032-410	UT2+3-8		
35 36 37	8Z-CH4-211-010 87-036-368-010 84-CD5-217-010 85-CD7-217-010 8Z-CH4-206-010	MAGNET PLATE, M HLDR, CH	AGNET UCK A						
39 40 41	8Z-CHE-008-010 8Z-CHR-008-010 8Z-CH4-005-010 8Z-CH4-213-010 8Z-CH4-622-010	BOX,CD : WINDOW, SPR-P,R	EXCEPT 99HR,99EZ> 24<99HR,99EZ> CD BC-SW 21 E, 6P TU-FR						

COLOR NAME TABLE

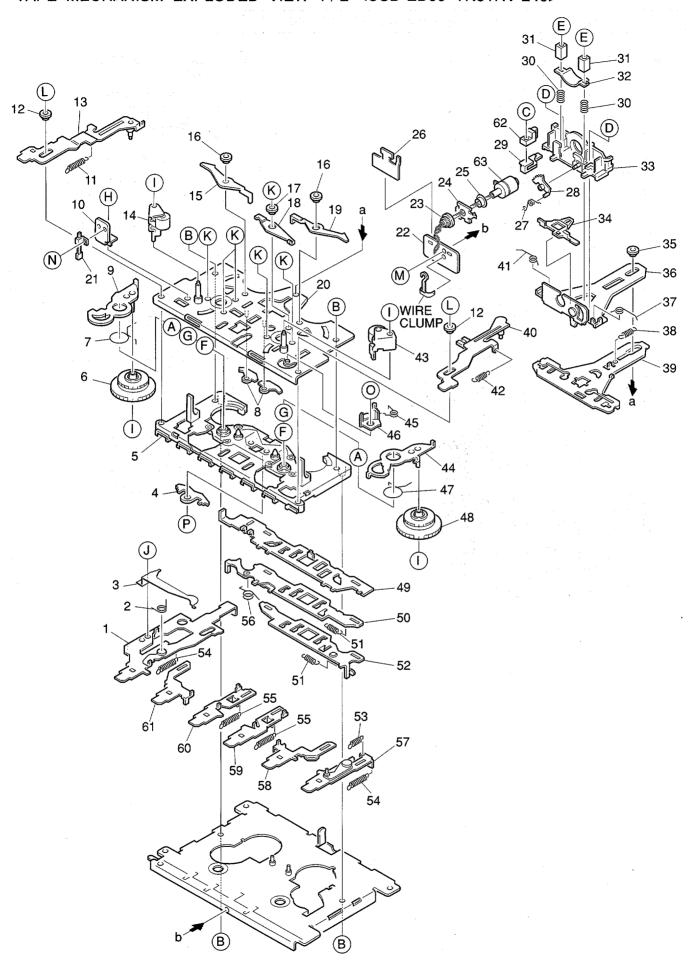
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Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color		
В	Black	С	Cream	D	Orange		
G	Green	Н	Gray	L	Blue		
LT	Transparent Blue	N	Gold	Р	Pink		
R	Red	S	Silver	ST	Titan Silver		
T	Brown	V	Violet	W	White		
WT	Transparent White	Y	Yellow	YT	Transparent Yellow		
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green		
LD	Dark Blue	DT	Transparent Orange	,	·		



TAPE MECHANISIM PARTS LIST 1/1 <CSD-ED88/89 TN21ZVC-1816>

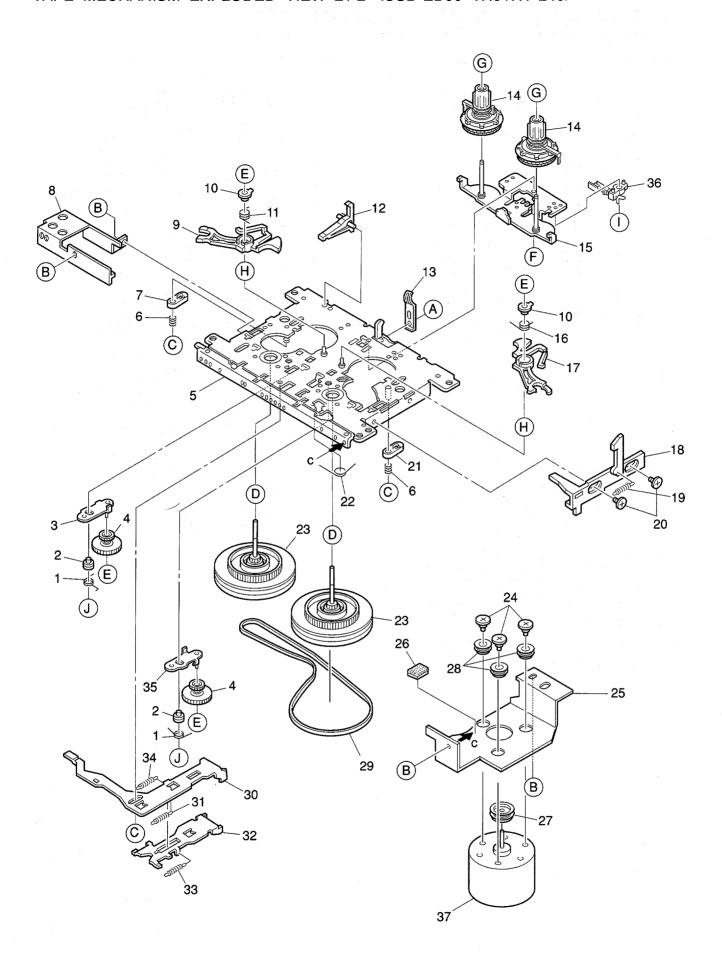
REF. NO.		ANRI DESCRIPTION IO.		PART NO.	KANRI DESCRIPTION NO.
1	S1-921-030-4A0	HEAD BASE	41	\$1-921-140-160 \$1-921-093-030 \$1-921-090-040 \$1-921-120-010 \$6-002-030-220	E ACTUATOR SPRING
	S1-821-030-070	AZIMUTH SPRING	42	51-921-093-030	FLYWHEEL ASSY
	\$1-921-030-070	PANEL P SPRING	42	G1_021_000_040	MAIN BBELT
		PANEL P SPRING	43	G1 001 100 010	MOTOR PULLEY
	S1-921-260-050	GEAR PLATE SPRING	44	31-921-120-010	MOTOR POLICE
5	S1-921-265-020	GEAR PLATE ASSY	45	86-002-030-220	MOTOR EG530AD-2B
. 6	\$1-921-140-370	P ARM COLLER	46	S6-209-100-100	E HEAD PH-K380-MS1
. 7	S1-921-140-340	P ARM	47	S1-921-030-050	MG ARM
	S1-921-030-110	HEAD PANEL		S1-921-140-210	
	\$1-921-143-160	BASE ASSY			
	S1-921-141-8A0	M CONTROL SPRING		S1-921-120-540	
10	91-321-141-0M0	M CONTROL STRING	, 30	51 721 120 540	HOTOR BRACKET
11	S1-921-260-4A0	SENSING LEVER	- 51	S1-821-010-500	PLAY BUTTON LEVER SPRING
	S1-921-043-100	PINCH ROLLER ARM ASSY	52	S6-202-010-920	R.P HEAD MS15R-AK0N1
13	S1-921-130-010	EJECT SLIDE LEVER	53	S6-401-011-490	LEAF SW MSW-1541T
14	S1-921-141-3A0	P CONTROL SPRING	54	S1-921-015-010	CHASSIS ASSY
15	S1-921-140-550	PAUSE LEVER(E)	55	S1-921-030-100	MG ARM SPRING
1.0	a1 001 140 100	DAVIGE LEVEL CORTNO		\$1-821-010-500 \$6-202-010-920 \$6-401-011-490 \$1-921-015-010 \$1-921-030-100 \$1-921-010-160 \$1-821-120-660 \$9-P04-200-310 \$1-851-140-180 \$9-B10-200-510	SIDE BRACKET
	S1-921-140-120	PAUSE LEVER SPRING	50	51-921-010-160	SIDE BRACKET
	S1-921-140-110	PAUSE STOPPER	5/	51-821-120-660	MOTOR RUBBER
	S1-921-140-150	PAUSE LEVER SPRING PAUSE STOPPER BUTTON LEVER SPRING(B)	A	S9-P04-200-310	C TAPPING SCREW 2-3
	S1-821-011-590	E VICK DEADY	В	S1-851-140-180	MOTOR COLLER SCREW
20	S1-921-140-140	BUTTON LEVER SPRING(A)	С	S9-B10-200-510	P TAPPING BIND SCREW M2-5
21	S1-921-140-200	PR STOPPER	D	S9-C07-204-510	SCREW, TAPPING (CAMERA) M2-4.5
	S1-921-140-090	SWITCH ACTUATOR		S9-P01-200-610	
	S1-921-140-080	PUSH BUTTON ACTUATOR		S9-P01-200-310	
	S1-921-140-190	PLAY BUTTON LEVER		S9-F08-200-710	
	S1-510-020-020	REC SPRING PLATE	***	GO DOE 200 010	C MADDING GODEW MO 0
25	51-510-020-020	REC SPRING PLAIL	п	\$9-W02-300-100 \$9-W02-500-100 \$9-W01-400-100 \$9-W01-130-200 \$9-P08-203-010	5 TAFFING SCARW M2-0
26	S1-921-140-040	REW BUTTON LEVER	I	S9-W02-300-100	P WASHER CUT 1.2-3.8-0.3
	\$1-921-140-050	FF, BUTTON REVER	J.	S9-W02-500-100	P WASHER CUT 1.45-3.8-0.5
	S1-921-140-060	STOP BUTTON LEVER	ĸ	S9-W01-400-100	P WASHER 2-3.5-0.4
	S1-921-140-600	PAUSE BUTTON LEVER	. T.	S9-W01-130-200	P WASHER 2.1-4-0.13
	S1-821-100-700	FF GEAR	м	S9-P08-203-010	PS TAPPING SCREW M2-3
30	51-621-100-700	II GEAR	- 11	D5 100 203 010	ID INTINO BOXDW HZ 5
	S1-921-050-060	SENSOR	Ň	S9-P04-200-410	C TAPPING SCREW M2-4
32	S1-921-053-030	TAKE UP REEL ASSY			
33	S1-821-100-980	PACK SPRING			
34	S1-921-053-040	SUPPLY REEL ASSY			
35	S1-821-100-990	BACK TENSION SPRING			
26	S1-921-140-030	REC BUTTON LEVER			
	S1-921-140-030 S1-921-140-170	P.S.LEVER SPRING			
	S1-921-073-040	RF CLUTCH ASSY			
	S1-921-070-030	RF BELT			
40	S1-921-260-020	CAM GEAR			

TAPE MECHANISM EXPLODED VIEW 1/2 <CSD-ED99 TN51RV-240>



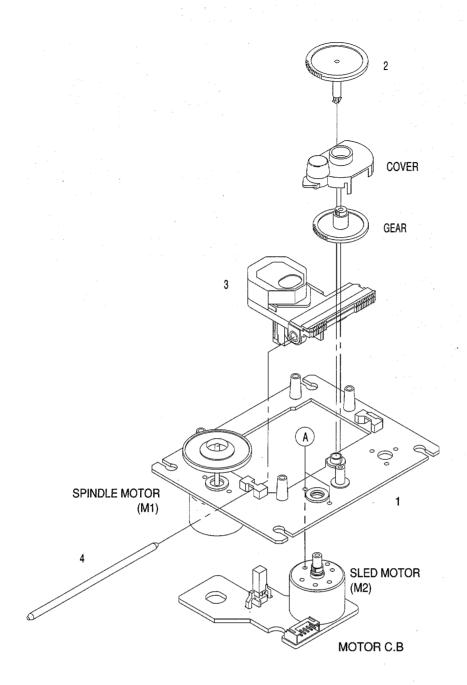
TAPE MECHANISIM PARTS LIST 1/2 <CSD-ED99 TN51RV-240>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION		PART NO.	KANRI NO.	DESCRIPTION
2	S1-851-023-190 S1-851-020-620 S1-851-020-570	REC BUT E-LOCK E-HEAD	PTON LEVER ASSY ARM SPRING ARM PROL ARM BASE ASSY	46 47 48	S1-851-030-030 S1-851-050-040 S1-851-050-030	TURN T GE	N OVER ARM BAR ARM(F)SPR BAR ARM(F)
	S1-851-020-410 S1-851-025-040	BUTTON	BASE ASSY	50	S1-851-020-560 S1-851-023-140	LOCE	DE PLATE K ACTUATOR ASSY
	S1-851-060-020 S1-851-060-030	T GEAR T GEAR	ARM(R) ARM(R)SPR ARM ASSY (R)ASSY /ER SW BRACKET	51 52	S1-851-020-670 S1-851-023-150	SW A	ACTUATOR SPRING ACTUATOR ASSY
	S1-851-180-100	RC ARM	ADM AGGIZ (D) AGGIZ	53	S1-851-020-270	PULI	L ARM SPRING
	S1-851-063-020 S1-851-030-050	TURN O	JER SW BRACKET	55	S1-851-020-690	FF E	GRAM BUTTON LEVER SPRING BUTTON LEVER SPRING
	S1-851-020-680 S1-851-020-600	MODE BU	JTTON SPRING COLLER JTTON LEVER ASSY ROLLER (R)ASSY DMTROL ARM(R)	56 57	S1-851-020-760	LOCE	K RELEASE SPRING GRAM BUTTON LEVER ASSY
	S1-851-023-240	MODE BU	JTTON LEVER ASSY	58	S1-851-020-5T0	STO	P BUTTON LEVER
	S1-851-105-020	PINCH F	ROLLER (R)ASSY	59	S1-851-020-080	FF F	BUTTON LEVER (F)
15	S1-851-180-060	AUTO CO	ONTROL ARM(R)	60	S1-851-020-090) FF E	BUTTON LEVER (R)
	S1-851-180-120		COLLAR SCREW		S1-851-020-6T0		Y BUTTON LEVER
	S1-851-020-580		ARM COLLER	62	\$6-205-100-120	E HE	EAD EM-1636
	\$1-851-180-080			. 63	S6-205-060-010	RPF	HEAD RC-889
	S1-851-180-050 S1-851-183-030		ONTROL ARM(F) ASSIS ASSY	. A	S9-999-000-130 S9-674-000-000	PWA	ASHER 1.75-4-0.3 AP SCREW M2-6
20	21-031-103-030	SOB CIL	rooro woor	Б	59-074-000-000	, L 12	AF SCREW M2-0
21	S6-401-010-990	LEAF SW	MSW-1473NBK	С	S9-696-000-000	CAME	ERAS TAPING SCREW M1.7-4.5
22	S1-851-010-060	HW TERN	MINAL PLATE	. D	\$9-695-000-000	CAME	ERA S TAP SCREW M1.7-
	S1-851-040-440		GEAR	E	S9-999-200-360	SCRE	EW M2-12 (+/-)
	S1-851-040-180			F	\$9-695-000-000 \$9-999-200-360 \$9-786-000-000 \$9-999-030-090	P WA	ASHER 2-3.5-0.3
25	S1-851-040-270	H HOLDE	ER SPRING	G	S9-999-030-090	P WA	ASHER 1.45-4-0.5
26	S1-851-040-410	H SHIEI	D PLATE	н	S9-999-130-060	CAME	ERA S TAPPING SCREW M1.7-2
	S1-851-040-250		OVER SPRING	I	S9-421-000-000	P WA	ASHER 1.2-3-0.25
28	S1-851-040-200	H TURN	OVER GEAR	J	S9-C19-173-030	TSS	1.7X3
	\$1-851-040-260		HOLDER	K	S9-C20-178-510	SCRE	EW,TS 1.7-8.5
30	S1-865-020-590	AZIMUTH	I SPRING	L	S9-185-000-000	C TA	AP SCREW M2-10
31	S1-851-040-360	SCREW H	HOLDER PRING PLATE DUNT LIDE PLATE LLAR SCREW	М	s9-999-200-120	TWO	LOCK SCREW M2-4
32	S1-851-040-240	HEAD SE	PRING PLATE	. N	S9-077-000-000	TAMS	S SCREW M2-4 (+)
	\$1-851-040-390	HEAD MC	UNT	0	S9-502-000-000	E RI	ING S2.0
	S1-851-040-210	HEAD SI	IDE PLATE	P	S9-C19-174-030	SCRE	EW, TSS M1.7-4
35	S1-851-040-550	H.P.COL	LAR SCREW	Q	S9-999-000-160	P WA	ASHER 2.8-6-0.5
36	S1-851-040-140	HEAD PA	ANEL				
	S1-851-040-280		ROLLER SPRING (F)				
	S1-851-040-090	R.C.PLA	ATE SPRING				
	S1-851-040-150			e, the first			
40	S1-851-023-230	PAUSE E	BUTTON LEVER ASSY				
41	S1-851-040-290	PINCH F	ROLLER SPRING (R)				
42	S1-800-110-230	PAUSE S					
	S1-851-095-020		ROLLER (F)ASSY		18 T		
	S1-851-053-020		ARM (F) ASSY				
45	S1-851-030-040	UE TURN OV	ER SPRING				



TAPE MECHANISIM PARTS LIST 2/2 <CSD-ED99 TN51RV-240>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION		REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
2	\$1-851-070-040 \$1-851-070-050 \$1-851-083-010 \$1-851-070-030 \$1-851-013-050	ff GEAR FF GEAR FF GEAR	ARM SPR(F) ARM COLLAR ARM(R)ASSY ASSY		32 33 34	\$1-851-040-110 \$1-851-160-020 \$1-851-160-060 \$1-851-020-420 \$1-851-073-010	FF SW FF SW BUTTC	PRING (M) PLATE PLATE SPRING N LEVER SPR(P) AR ARM(F)ASSY
7	\$1-821-010-160 \$1-851-010-080 \$1-851-010-070 \$1-851-200-020 \$1-851-200-050	PAUSE LI SIDE BRI AUTO LE	ACKET VER(R)		37 38 A	\$6-401-011-720 \$6-002-030-230 \$6-401-010-440 \$9-P33-200-320 \$9-180-000-000) MOTOR LEAF DEL I	SW MSW-1290CV EG-530AD-2F SW MSW-0094CNBK TTE SCREW M2-3 SCREW M2-4
12 13 14	\$1-851-200-030 \$1-851-010-090 \$1-821-100-980 \$1-851-115-010 \$1-851-113-010	RECORD : PACK SP REEL AS	VER(R)SPR SAFETY LEVER RING PLATE SY ATE ASSY		D E F	\$9-876-000-000 \$9-889-000-000 \$9-421-000-000 \$9-C19-173-030 \$9-888-000-000	P WAS P WAS TSS 1	HER 2.1-5-0.5 HER 2.1-3-0.3 HER 1.2-3-0.25 .7X3 HER 1.2-3-0.4
17 18	S1-851-200-040 S1-851-200-010 S1-851-170-070 S1-851-170-020 S1-821-120-230	AUTO LE EJECT S EJECT S	VER(F)SPR VER(F) LIDE LEVER LIDE LEVER SPR LAR SCREW (A)		I	S9-999-000-090 S9-181-000-000 S9-C19-174-030	C TAP	HER 3-8.5-0.13 SCREW M2-5 (+) H,TSS M1.7-4
22	S1-821-010-150 S1-851-020-210 S1-851-125-050 S1-821-120-020 S1-921-120-540	STOP BU' FLYWHEE M. COLL	ITON LEVER SPR L ASSY ER SCREW					
27	\$1-800-100-220 \$1-851-140-150 \$1-820-130-060 \$1-851-140-170 \$1-851-040-080	MOTOR PI MOTOR RI MAIN BE	UBBER LT					



CD MECHANISM PARTS LIST 1/1

REF. NO	. PART NO.	Kanri No.	DESCRIPTION
1	9x-262-620-21	OTOM 0.	R CHASSIS ASSY
2	92-626-907-01	0 GEAR	(A)
3	87-A90-468-01	0 PICK	UP KSS-213C
4	92-626-908-01	0 SHAF	T SLED
Δ	97-621-255-15	n corp.	MTTD3 T3

ACCESSORIES / PACKAGE LIST

REF.	NO.	PART NO.	Kanri No.	DESCRIPTION	
<u>*</u>	1 1 2	8Z-CH4-908-010 8Z-CHE-907-010 8Z-CHG-906-010 87-A80-119-010 87-A80-036-010	IB, HR (EC IB, LH (ES AC CORD	· ·	R VOL <except ha=""></except>
	3 4	87-A90-312-010 8Z-CK4-962-010		VERSION WTN-1157 RC-ZAT04 (VS)	R1 <except ez=""></except>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION

REFERENCE NAME

ANT C-C-CAP

ANTENNAS

C-CAP TN C-COIL

CHIP
CAP, CHIP
CAP, CHIP TANTALUM
COIL, CHIP

C-DIODE C-FET C-FOTR C-JACK

DIODE, CHIP DIODE, CHIP FET, CHIP FILTER, CHIP JACK, CHIP

C-LED C-RES C-SFR C-SLIDE SW C-SW

LED, CHIP RES, CHIP SFR, CHIP SLIDE SWITCH, CHIP SWITCH, CHIP

C-TR C-VR C-ZENER CAP, CER CAP, E

TRANSISTOR, CHIP VOLUME, CHIP ZENER, CHIP CAP, CERA-SOL CAP, ELECT

CAP, M/F CAP, TC CAP, TC-U CAP, TN **CERA FIL**

CAP, FILM CAP, CERA-SOL CAP, CERA-SOL SS CAP, TANTALUM FILTER, CERAMIC

E/CAP FILT FLTR

FILTER, CERAMIC DELAY LINE CAP, ELECT FILTER **FILTER**

FUSE RES MOT P-DIODE P-SNSR

RES, FUSE MOTOR PHOTO DIODE PHOTO SENSER PHOTO TRANSISTOR

POLY VARI PPCAP PT PTR, RES RC

VARIABLE CAPACITOR CAP, PP POWER TRANSFORMER PTR, MELF REMOTE CONTROLLER

RES NE SHLD SOL SPKR

RES, NON-FLAMMABLE RESONATOR

SHIELD SOLENOID SPEAKER

SW, LVR SW, RTRY SW, SL TC CAP THMS

SWITCH, LEVER SWITCH, ROTARY SWITCH, SLIDE CAP, CERA-SOL THERMISTOR

TRIMER TUN-CAP VIB, CER VIB, XTAL

TRANSISTOR CAP, TRIMMER VARIABLE CAPACITOR RESONATOR, CERAMIC RESONATOR, CRYSTAL

ZENER

VOLUME DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION **ADHESHIVE** BAR-ANT BATT

SHEET ADHESHIVE AZIMUTH **BAR-ANTENNA** BATTERY

REFERENCE NAME

BRG BTN CAB ČASS CHAS

BEARING BUTTON CABINET CASSETTE CHASSIS

CLR CONT CRSR ČÜ CUSH COLLAR CONTROL CURSOR CUSHION CUSHION

DIR DUBB FL FLY-WHL FR

DIRECTION DUBBING FRONT LOADING FLYWHEEL **FRONT**

FUN G-CU HDL HIMERON HINGE, BAT

FUNCTION G-CUSHION HANDOL HINGE, BATTERY

HLDR HT-SINK ΪB IDLE IND, L-R

LBL

LID, BATT

HOLDER HEAT SINK INSTRUCTION BOOKLET

INDICATOR, L-R KEY, CONT KEY, PRGM KNOB, SL

KEY, CONTROL KEY, PROGRAM KNOB, SLIDE LABEL LID, BATTERY

LID, CASS LVR P-SP PANEL, CONT PANEL, FR LID, CASSETTE LEVER P-SPRING PANEL, CONTROL PANEL, FRONT

PRGM PULLY, LOAD MO RBN ŠEG

PROGRAM PULLY, LOAD MOTOR RIBBON

SHLD-SH

SHEET SHIELD-SHEET SLIDE

SEGMENT

SL SP-SCREW

SPRING SPECIAL-SCREW

SPACER, BAT SPR SPR-P

SPACER, BATTERY SPRING P-SPRING

SPR-PC-PUSH

P-SPRING, C-PUSH T-SPRING

TERM TRIG TUN VOL

TERMINAL TRIGGER TUNING VOLUME WASHER

WHL WORM-WHL

WHEEL WORM-WHEEL

サービス技術ニュース 番号 連絡内容 G-G G

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